

## **Appendix III: Profile of Commercial Fisheries for the North Central Coast Study Region**

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### Appendix III(a): Summary of Point Arena and Anchor Bay fisheries, 1992-2006

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

Fishery	Market Category Groupings***	Primary Species Targeted**	Primary Gear	No. of Fisher-men 2006*	No. of Vessels 2006*	Recent Average Annual Landings 2003-06* (lbs)	Recent Average Annual Value 2003-06* (\$)	Average Annual Landings 1992-06* (lbs)	Average Annual Value 1992-06* (\$)
Albacore/tuna	Tuna	Albacore, Bluefin, Bigeye, Yellowfin, Skipjack	Troll hook-and-line, Purse seine	0	0	****	****	368	407
California halibut	California halibut	California halibut	Trawl, hook-and-line, gill and trammel net	1	1	****	****	****	****
Croaker	Croaker	White croaker	Gill net, hook-and-line, round haul nets	0	0	0	0	10	8
Dover sole/Thornyheads/Sablefish Trawl	Dover sole, Thornyheads, Sablefish	Dover sole, Longspine thornyhead, Shortspine thornyhead, Sablefish	Trawl	0	0	0	0	****	****
Dover sole, Non-Trawl	Dover sole	Dover sole	Hook-and-line	0	0	0	0	****	****
Sablefish, Non-Trawl	Sablefish	Sablefish	Longline, gill nets, and traps	0	0	0	0	893	909
Thornyheads, Non-Trawl	Thornyheads	Longspine thornyhead, shortspine thornyhead	Longline	1	1	****	****	****	****
Dungeness crab	Dungeness crab	Dungeness crab	Circular traps	7	7	30,379	54,733	17,552	34,395
Flatfishes other than Sanddabs	Flatfish other	Petrable sole, and other flatfish	Bottom trawl	1	1	****	****	21	25

Fishery	Market Category Groupings***	Primary Species Targeted**	Primary Gear	No. of Fisher-men 2006*	No. of Vessels 2006*	Recent Average Annual Landings 2003-06* (lbs)	Recent Average Annual Value 2003-06* (\$)	Average Annual Landings 1992-06* (lbs)	Average Annual Value 1992-06* (\$)
<b>Jacksmelt</b>	Smelt	Jacksmelt	Seine	0	0	****	****	****	****
<b>Lingcod</b>	Lingcod	Lingcod	Hook-and-line, Trawl, Gill net, Trap	5	6	2,729	4,656	2,021	2,835
<b>Market squid</b>	Market squid	Market squid	Seine, Brail, Round haul nets, lampara net	0	0	0	0	0	0
<b>Nearshore finfish</b>	Nearshore fish	Nearshore rockfish (See Appendix III-k for species list), Cabezon, Kelp greenling	Hook-and-line, Trap	4	5	11,498	64,325	9,251	40,620
<b>Ocean shrimp</b>	Ocean shrimp	Ocean shrimp	Trawl	0	0	0	0	0	0
<b>Pelagic wetfish</b>	Coastal pelagic species	Pacific sardine, Northern anchovy, Jack mackerel, Pacific mackerel	Seine	0	0	68	68	20	20
<b>Red abalone</b>	Red abalone	Red abalone	No commercial take is allowed for this species after 1997.	0	0	0	0	0	0
<b>Red urchin</b>	Red urchin	Red urchin	Hand harvest with scuba or hooka gear	12	7	627,125	305,979	1,202,886	972,902
<b>Rock crab</b>	Rock crab	Brown and red rock crab	Traps	0	0	0	0	****	****
<b>Roe herring</b>	Herring	Herring	Gill net	0	0	0	0	0	0
<b>Salmon</b>	Salmon	King salmon (Chinook)	Troll hook-and-line and mooching	16	16	36,079	107,826	18,525	45,216

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. of Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Sanddabs</b>	Sanddabs	Pacific sanddab	Trawl, hook-and-line	1	1	1	1	1	1
<b>Sharks and skates</b>	Sharks, Skates, Rays	Thresher, Mako, Dogfish, Skates, Other sharks	Hook-and-line, Trawl, Gill nets	2	2	148	206	45	58
<b>Shelf rockfish</b>	Rockfish shelf	Shelf rockfish (See Appendix III-k for species list)	Bottom trawl, Midwater trawl, Longline, Hook-and-line, Gill net	5	6	805	2,257	544	1,099
<b>Slope rockfish/ Grenadier</b>	Rockfish slope, Grenadier	Slope rockfish (See Appendix III-k for species list), Grenadier	Bottom trawl, Set longline	0	0	9	17	124	127
<b>Spot prawn - trap</b>	Spot prawn	Spot prawn	traps	0	0	0	0	****	****
<b>Perch</b>	Surfperch	Barred and redtail surfperch	Hook-and-line	0	0	****	****	13	26
<b>Swordfish</b>	Swordfish	Swordfish	Drift gill net, Hook-and-line, Harpoon	0	0	0	0	0	0

\*2006 data are preliminary

\*\*See Appendix III(k) for a complete list of targeted species for each fishery.

\*\*\*See Appendix III(l) for a complete list of species included in market category groupings.

\*\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(b): Summary of Bodega Bay Port complex fisheries, 1992-2006.**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Albacore/ Other tuna</b>	Tuna	Albacore, Bluefin, Bigeye, Bonito, Yellowfin, Skipjack	Troll hook-and-line, Purse seine	6	6	34,564	39,701	84,882	82,621
<b>California halibut</b>	California halibut	California halibut	Trawl, hook-and-line, gill and trammel net	20	19	16,913	48,974	17,722	45,546
<b>Croaker</b>	Croaker	White croaker	Gill net, hook-and-line, round haul nets	0	0	507	550	8,490	3,903
<b>Dover sole/ Thornyheads/ Sablefish Trawl</b>	Dover sole, Thornyheads, Sablefish	Dover sole, Longspine thornyhead, Shortspine thornyhead, Sablefish	Trawl	2	2	103,039	57,107	1,047,937	498,842
<b>Dover sole, Non-Trawl</b>	Dover sole	Dover sole	Hook-and-line	0	0	0	0	3,699	2,147
<b>Sablefish, Non-Trawl</b>	Sablefish	Sablefish	Longline, gill nets, and traps	3	3	4,145	5,551	31,655	31,962
<b>Thornyheads, Non-Trawl</b>	Thornyheads	Longspine thornyhead, shorspine thornyhead	Longline	0	0	0	0	2,199	1,926
<b>Dungeness crab</b>	Dungeness crab	Dungeness crab	Circular traps	78	74	1,545,781	2,711,742	907,632	1,758,699
<b>Flatfishes other than Sanddabs</b>	Flatfish other	Petrале sole, and other flatfish	Bottom trawl	5	5	37,537	26,501	157,751	91,571
<b>Jacksmelt</b>	Smelt	Jacksmelt	Seine	0	0	149	62	618	251

Fishery	Market Category Groupings***	Primary Species Targeted**	Primary Gear	No. of Fisher-men 2006*	No. Vessels 2006*	Recent Average Annual Landings 2003-06* (lbs)	Recent Average Annual Value 2003-06* (\$)	Average Annual Landings 1992-06* (lbs)	Average Annual Value 1992-06* (\$)
Lingcod	Lingcod	Lingcod	Hook-and-line, Trawl, Gill net, Trap	19	19	4,467	6,893	42,271	22,692
Market squid	Market squid	Market squid	Seine, Brail, purse seine, lampara net	0	0	****	****	18,395	1,707
Nearshore finfish	Nearshore fish	Nearshore rockfish, Cabezon, Kelp greenling	Hook-and-line, Trap	9	9	12,350	56,368	39,632	81,251
Ocean shrimp	Ocean shrimp	Ocean shrimp	Trawl	0	0	0	0	11,158	4,942
Pelagic wetfish	Coastal pelagic species	Pacific sardine, Northern anchovy, Jack mackerel, Pacific mackerel	Seine	3	3	287	162	1,056	422
Red abalone	Red abalone	Red abalone	No commercial take is allowed for this species after 1997	0	0	0	0	5	5
Red urchin	Red urchin	Red urchin	Hand harvest with scuba or hooka gear	1	1	50,344	23,561	786,646	631,670
Rock crab	Rock crab	Brown and red rock crab	Traps	2	2	3,049	2,568	10,629	12,509
Roe herring	Herring	Herring	Gill net	12	9	184,124	58,252	327,250	177,062
Salmon	Salmon	Chinook salmon (King)	Troll hook-and-line mooching	242	237	862,040	2,321,916	610,273	1,343,475
Sanddabs	Sanddabs	Pacific sanddab	Trawl, hook-and-line	1	1	303	107	6,217	1,995
Shark and Skates	Sharks, Skates, Rays	Thresher, Mako, Dogfish, Skates, Other sharks	Hook-and-line, Trawl, Gill nets	4	4	1,454	558	7,440	4,465

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Shelf rockfish</b>	Rockfish shelf	Shelf rockfish	Bottom trawl, Midwater trawl, Longline, Hook-and-line, Gill net	14	16	7,189	9,142	525,928	270,959
<b>Slope rockfish/ Grenadier</b>	Rockfish slope, Grenadier	Slope rockfish, Grenadier	Bottom trawl, Set longline	4	5	8,126	3,417	40,760	14,659
<b>Spot prawn - trap</b>	Spot prawn	Spot prawn	Traps	0	0	0	0	475	3,270
<b>Perch</b>	Surfperch	Barred and redtail surfperch	Hook-and-line	4	3	1,499	1,919	2,267	2,144
<b>Swordfish</b>	Swordfish	Swordfish	Drift gill net, Hook-and-line, Harpoon	0	0	0	0	27,483	83,500

\*2006 data are preliminary

\*\*See Appendix III(k) for a complete list of targeted species for each fishery.

\*\*\*See Appendix III(l) for a complete list of species included in market category groupings.

\*\*\*\* Data cannot be disclosed due to confidentiality considerations.

### Appendix III(c): Summary of San Francisco Port complex fisheries, 1992-2006

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

Fishery	Market Category Groupings***	Primary Species Targeted**	Primary Gear	No. of Fisher-men 2006*	No. Vessels 2006*	Recent Average Annual	Recent Average Annual Value	Average Annual Landings 1992-06* (lbs)	Average Annual Value 1992-06* (\$)
<b>Albacore/ Other tuna</b>	Tuna	Albacore, Bluefin, Bigeye, Bonito, Yellowfin, Skipjack	Troll hook-and-line, Purse seine	4	4	17,948	21,451	156,879	153,817
<b>California halibut</b>	California halibut	California halibut	Trawl, hook-and-line, gill and trammel net	63	62	323,155	835,339	267,393	652,356
<b>Croaker</b>	Croaker	White croaker	Gill net, hook and line, round haul nets	9	8	27,248	28,764	32,063	28,296
<b>Dover sole/ Thornyheads/ Sablefish Trawl</b>	Dover sole, Thornyheads, Sablefish	Dover sole, Longspine thornyhead, Shortspine thornyhead, Sablefish	Trawl	10	0	791,090	439,304	918,679	440,793
<b>Dover sole, Non-Trawl</b>	Dover sole	Dover sole	Hook-and-line	0	0	****	****	1,220	448
<b>Sablefish, Non-Trawl</b>	Sablefish	Sablefish	Longline, gill nets, and traps	12	12	101,160	159,015	176,572	216,638
<b>Thornyheads, Non-Trawl</b>	Thornyheads	Longspine thornyhead, shorspine thornyhead	Longline	5	5	11,427	47,080	10,968	20,687
<b>Dungeness crab</b>	Dungeness crab	Dungeness crab	Circular traps	100	101	2,321,900	4,213,797	1,083,318	2,095,149
<b>Flatfishes other than Sanddabs</b>	Flatfish other	Petrале sole, and other flatfish	Bottom trawl	22	19	264,852	228,531	373,307	252,662
<b>Jacksmelt</b>	Smelt	Jacksmelt	Seine	3	3	4,145	3,073	4,751	3,099

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual</b>	<b>Recent Average Annual Value</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Lingcod</b>	Lingcod	Lingcod	Hook-and-line, Trawl, Gill net, Trap	31	30	10,620	34,310	143,578	87,050
<b>Market squid</b>	Market squid	Market squid	Seine, Brail, purse seine, lampara net	0	0	633,629	157,593	170,143	42,159
<b>Nearshore finfish</b>	Nearshore fish	Nearshore rockfish, Cabezon, Kelp greenling	Hook and line, Trap	23	25	11,635	62,033	58,983	136,112
<b>Ocean shrimp</b>	Ocean shrimp	Ocean shrimp	Trawl	0	0	0	0	****	****
<b>Pelagic wetfish</b>	Coastal pelagic species	Pacific sardine, Northern anchovy, Jack mackerel, Pacific mackerel	Seine	2	2	169	245	151,318	24,550
<b>Red abalone</b>	Red abalone	Red abalone	No commercial harvest is allowed for this specie after 1997	0	0	0	0	140	1,150
<b>Red urchin</b>	Red urchin	Red urchin	Hand harvest with scuba or hooka gear	1	1	15,120	9,299	40,728	41,659
<b>Rock crab</b>	Rock crab	Brown and red rock crab	Traps	3	3	3,031	5,198	3,978	6,774
<b>Roe herring</b>	Herring	Herring	Gill net	0	0	0	0	0	0
<b>Salmon</b>	Salmon	Chinook salmon (King)	Troll hook-and-line, mooching	108	106	772,983	2,085,246	744,925	1,521,788
<b>Sanddabs</b>	Sanddabs	Pacific sanddab	Trawl, hook and line	5	4	39,715	18,984	191,214	67,426
<b>Shark and Skates</b>	Sharks, Skates, Rays	Thresher, Mako, Dogfish, Skates, Other sharks	Hook and line, Trawl, Gill nets	25	23	21,109	13,700	54,512	28,066

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual</b>	<b>Recent Average Annual Value</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Shelf rockfish</b>	Rockfish shelf	Shelf rockfish	Bottom trawl, Midwater trawl, Longline, Hook-and-line, Gill net	33	33	32,159	23,536	803,572	363,054
<b>Slope rockfish/ Grenadier</b>	Rockfish slope, Grenadier	Slope rockfish, Grenadier	Bottom trawl, Set longline	14	14	135,188	60,364	162,980	56,777
<b>Spot prawn - trap</b>	Spot prawn	Spot prawn	Traps	0	0	0	0	608	4,004
<b>Surfperch</b>	Surfperch	Barred and redtail surfperch	Hook and line	13	12	14,389	37,441	9,038	20,777
<b>Swordfish</b>	Swordfish	Swordfish	Drift gill net, Hook-and-line, Harpoon	1	1	158,232	366,011	111,525	265,259

\*2006 data are preliminary

\*\*See Appendix III(k) for a complete list of targeted species for each fishery.

\*\*\*See Appendix III(l) for a complete list of species included in market category groupings.

\*\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(d): Summary of Princeton/Half Moon Bay port fisheries, 1992-2006**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Albacore/ Other tuna</b>	Tuna	Albacore, Bluefin, Bigeye, Bonito, Yellowfin, Skipjack	Troll hook-and-line, Purse seine	8	8	17,566	33,686	25,328	36,367
<b>California halibut</b>	California halibut	California halibut	Trawl, hook-and-line, gill and trammel net	26	25	164,217	450,898	132,917	337,670
<b>Croaker</b>	Croaker	White croaker	Gill net, hook and line, round haul nets	12	11	3,202	2,307	12,317	6,547
<b>Dover sole/ Thornyheads/ Sablefish Trawl</b>	Dover sole, Thornyheads, Sablefish	Dover sole, Longspine thornyhead, Shortspine thornyhead, Sablefish	Trawl	8	7	32,182	17,299	386,959	162,196
<b>Dover sole, Non-Trawl</b>	Dover sole	Dover sole	Hook-and-line	0	0	****	****	501	152
<b>Sablefish, Non-Trawl</b>	Sablefish	Sablefish	Longline, gill nets, and traps	6	6	40,794	68,510	64,011	76,071
<b>Thornyheads, Non-Trawl</b>	Thornyheads	Longspine thornyhead, shorspine thornyhead	Longline	1	1	570	723	1,017	995
<b>Dungeness crab</b>	Dungeness crab	Dungeness crab	Circular traps	80	69	1,406,094	2,668,353	770,706	1,573,415
<b>Flatfishes other than Sanddabs</b>	Flatfish other	Petrале sole, and other flatfish	Bottom trawl	22	19	245,250	203,008	309,745	205,968

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Jacksmelt</b>	Smelt	Jacksmelt	Seine	4	4	208	272	255	220
<b>Lingcod</b>	Lingcod	Lingcod	Hook-and-line, Trawl, Gill net, Trap	39	35	9,477	19,811	49,433	35,602
<b>Market squid</b>	Market squid	Market squid	Seine, Brail, purse seine, lampara net	1	1	1,004,796	251,959	1,446,160	285,005
<b>Nearshore finfish</b>	Nearshore fish	Nearshore rockfish, Cabezon, Kelp greenling	Hook and line, Trap	17	22	4,517	17,083	30,778	59,458
<b>Ocean shrimp</b>	Ocean shrimp	Ocean shrimp	Trawl	0	0	0	0	442	163
<b>Pelagic wetfish</b>	Coastal pelagic species	Pacific sardine, Northern anchovy, Jack mackerel, Pacific mackerel	Seine	10	10	485,507	18,984	423,026	26,297
<b>Red abalone</b>	Red abalone	Red abalone	No commercial harvest is allowed for this species after 1997	0	0	0	0	29,240	223,459
<b>Red urchin</b>	Red urchin	Red urchin	Hand harvest with scuba or hooka gear	0	0	****	****	27,880	17,020
<b>Rock crab</b>	Rock crab	Brown and red rock crab	Traps	5	5	9,269	24,425	40,477	49,548
<b>Roe herring</b>	Herring	Herring	Gill net	0	0	0	0	0	0
<b>Salmon</b>	Salmon	Chinook salmon (King)	Troll hook-and-line, mooching	105	100	556,845	1,656,832	747,232	1,579,958
<b>Sanddabs</b>	Sanddabs	Pacific sanddab	Trawl, hook and line	10	10	217,686	97,226	509,488	213,084

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Shark and Skates</b>	Sharks, Skates, Rays	Thresher, Mako, Dogfish, Skates, Other sharks	Hook and line, Trawl, Gill nets	15	14	15,660	6,250	29,605	12,132
<b>Shelf rockfish</b>	Rockfish shelf	Shelf rockfish	Bottom trawl, Midwater trawl, Longline, Hook-and-line, Gill net	27	27	5,846	10,269	300,122	157,027
<b>Slope rockfish/ Grenadier</b>	Rockfish slope, Grenadier	Slope rockfish, Grenadier	Bottom trawl, Set longline	4	4	6,054	4,655	59,628	19,861
<b>Spot prawn - trap</b>	Spot prawn	Spot prawn	Traps	0	0	0	0	205	1,442
<b>Surfperch</b>	Surfperch	Barred and redbtail surfperch	Hook and line	3	3	52	97	173	247
<b>Swordfish</b>	Swordfish	Swordfish	Drift gill net, Hook-and-line, Harpoon	0	0	0	0	2,646	8,384

\*2006 data are preliminary

\*\*See Appendix III(k) for a complete list of targeted species for each fishery.

\*\*\*See Appendix III(l) for a complete list of species included in market category groupings.

\*\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(e): Summary of the north central coast study region fisheries (including San Francisco Bay complex ports), 1992-2006**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Albacore/ other tuna</b>	Tuna	Albacore, Bluefin, Bigeye, Bonito, Yellowfin, Skipjack	Troll hook-and-line, Purse seine	18	18	70,124	94,950	267,458	273,213
<b>California halibut</b>	California halibut	California halibut	Trawl, hook-and-line, gill and trammel net	110	107	504,311	1,335,387	418,042	1,035,622
<b>Croaker</b>	Croaker	White croaker	Gill net, hook-and-line, round haul nets	21	19	30,957	31,622	52,881	38,753
<b>Dover sole/ Thornyheads/ Sablefish Trawl</b>	Dover sole, Thornyheads, Sablefish	Dover sole, Longspine thornyhead, Shortspine thornyhead, Sablefish	Trawl	20	19	926,312	513,711	2,353,589	1,101,844
<b>Dover sole, Non-Trawl</b>	Dover sole	Dover sole	**	0	0	1,751	915	5,424	2,750
<b>Sablefish, Non-Trawl</b>	Sablefish	Sablefish	Longline, gill nets, and traps	21	21	146,099	233,076	273,131	325,580
<b>Thornyheads, Non-Trawl</b>	Thornyheads	Longspine thornyhead, shorspine thornyhead	Longline	7	7	12,010	47,901	14,233	23,678
<b>Dungeness crab</b>	Dungeness crab	Dungeness crab	Circular traps	265	251	5,304,154	9,648,626	2,779,208	5,461,658
<b>Flatfishes other than Sanddabs</b>	Flatfish other	Petrале sole, and other flatfish	Bottom trawl	50	44	547,641	458,047	840,825	550,226
<b>Jacksmelt</b>	Smelt	Jacksmelt	Seine	7	7	4,535	3,605	5,634	3,622

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Lingcod</b>	Lingcod	Lingcod	Hook-and-line, Trawl, Gill net, Trap	94	90	27,292	45,858	187,870	112,578
<b>Market squid</b>	Market squid	Market squid	Seine, Brail, purse seine and lampara net	1	1	1,638,457	409,583	1,634,698	328,871
<b>Nearshore finfish</b>	Nearshore fish	Nearshore rockfish, Cabezon, Kelp greenling	Hook-and-line, Trap	53	61	40,001	199,809	138,644	317,441
<b>Ocean shrimp</b>	Ocean shrimp	Ocean shrimp	Trawl	0	0	0	0	11,612	5,110
<b>Pelagic wetfish</b>	Coastal pelagic species	Pacific sardine, Northern anchovy, Jack mackerel, Pacific mackerel	Seine	15	15	486,031	19,459	575,420	51,289
<b>Red abalone</b>	Red abalone	Red abalone	No commercial harvest is allowed for this specie after 1997.	0	0	0	0	29,385	224,615
<b>Red urchin</b>	Red urchin	Red urchin	Hand harvest with scuba or hooka gear	14	9	692,804	339,108	2,058,140	1,663,251
<b>Rock crab</b>	Rock crab	Brown and red rock crab	Traps	10	10	15,349	32,192	55,117	68,911
<b>Roe herring</b>	Herring	Herring	Gill net	12	9	184,124	58,252	328,274	177,726
<b>Salmon</b>	Salmon	Chinook salmon (King)	Troll hook-and-line, mooching	471	459	2,227,947	6,171,820	2,120,956	4,490,437
<b>Sanddabs</b>	Sanddabs	Pacific sanddab	Trawl, hook-and-line	17	16	257,705	116,318	706,920	282,505
<b>Shark and Skates</b>	Sharks, Skates, Rays	Thresher, Mako, Dogfish, Skates, other sharks	Hook-and-line, Trawl, Gill nets	46	43	38,371	20,713	91,602	44,722

<b>Fishery</b>	<b>Market Category Groupings***</b>	<b>Primary Species Targeted**</b>	<b>Primary Gear</b>	<b>No. of Fisher-men 2006*</b>	<b>No. Vessels 2006*</b>	<b>Recent Average Annual Landings 2003-06* (lbs)</b>	<b>Recent Average Annual Value 2003-06* (\$)</b>	<b>Average Annual Landings 1992-06* (lbs)</b>	<b>Average Annual Value 1992-06* (\$)</b>
<b>Shelf rockfish</b>	Rockfish shelf	Shelf rockfish	Bottom trawl, Midwater trawl, Longline, Hook-and-line, Gill net	79	82	46,000	45,203	1,630,167	792,139
<b>Slope rockfish/ Grenadier</b>	Rockfish slope, Grenadier	Slope rockfish, Grenadier	Bottom trawl, Set longline	22	23	149,377	68,453	263,492	91,424
<b>Spot prawn - trap</b>	Spot prawn	Spot prawn	Traps	0	0	0	0	1,314	8,960
<b>Perch</b>	Surfperch	Barred and redbtail surfperch	Hook-and-line	20	18	15,942	39,460	11,491	23,194
<b>Swordfish</b>	Swordfish	Swordfish	Drift gill net, Hook-and-line, Harpoon	1	1	158,232	366,011	141,654	357,144

\*2006 data are preliminary

\*\*See Appendix III(k) for a complete list of targeted species for each fishery.

\*\*\*See Appendix III(l) for a complete list of species included in market category groupings.

\*\*\*\* Data cannot be disclosed due to confidentiality considerations.

### Appendix III(f): Summary of the Point Arena and Anchor Bay port landings (pounds), 2001 - 2006

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

FINFISH	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
<b>Market Category Grouping*</b>							
Salmon	8,281	37,523	38,265	61,810	26,900	17,339	31,686
Nearshore finfish	11,344	12,229	6,117	14,716	15,403	9,757	11,594
Lingcod	1,066	2,323	918	3,653	3,784	2,559	2,384
Shelf rockfish	***	217	271	1,047	1,342	561	613
Tuna	***	***	***	0	0	0	***
Sharks, Skates, & Rays	0	0	0	0	***	***	***
Coastal Pelagics	0	0	0	258	**	0	45
Smelt	0	0	0	***	0	0	***
California halibut	0	0	0	0	0	***	***
Thornyheads, Non-Trawl	0	0	0	0	0	***	***
Slope rockfish/ Grenadier	0	0	***	***	***	0	***
Flatfishes other than Sanddabs	0	***	0	0	0	***	***
Surfperch	0	0	0	***	0	0	***
Sanddabs	0	0	0	0	0	***	***
Sablefish, Non-Trawl	***	0	0	0	0	0	***
Dover sole/ Thornyheads/ Sablefish Trawl	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0
Croaker	0	0	0	0	0	0	0
Dover sole, Non-Trawl	0	0	0	0	0	0	0

INVERTEBRATES	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
<b>Market Category Groupings</b>							
Red urchin	815,947	1,416,367	891,118	714,608	428,324	474,450	790,136
Dungeness crab	6,055	6,282	43,424	33,860	9,281	34,949	22,309
Rock crab	***	***	0	0	0	0	***
Spot prawn trap	***	0	0	0	0	0	***
Market squid	0	0	0	0	0	0	0
Ocean shrimp	0	0	0	0	0	0	0
Red abalone	0	0	0	0	0	0	0

\*See Appendix III(l) for a complete list of species for each market category.

\*\*2006 data are preliminary

\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(g): Summary of the Bodega Bay port complex landings (pounds), 2001 - 2006**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

FINFISH	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Grouping*							
Salmon	636,220	787,601	1,485,097	940,284	574,865	447,915	811,997
Herring	***	***	***	***	***	***	***
Dover sole/ Thornyheads/ Sablefish Trawl	108,297	266,365	295,622	***	***	***	131,136
Tuna	344,144	106,774	36,650	57,987	18,345	25,275	98,196
Flatfishes other than Sanddabs	102,443	98,587	117,609	7,748	1,262	23,528	58,530
Shelf rockfish	99,441	40,470	3,166	8,371	5,823	11,394	28,111
Slope rockfish/ Grenadier	57,242	39,913	16,705	2,901	***	12,780	21,610
California halibut	9,121	14,115	25,313	20,727	16,547	5,063	15,148
Nearshore finfish	8,547	15,140	8,305	15,693	14,612	10,790	12,181
Lingcod	3,821	6,878	5,914	5,934	3,611	2,407	4,761
Sablefish, Non-Trawl	3,325	2,363	12,065	2,409	825	1,281	3,711
Surfperch	3,954	7,075	104	2,387	***	1,235	2,838
Sharks, Skates, & Rays	221	1,677	2,092	411	1,043	2,271	1,286
Croaker	1,035	1,127	311	223	1,493	0	698
Coastal Pelagics			***	***	***	1,090	287
Smelt	395	***	0	***	***	0	275
Sanddabs	***	***	***		***	***	245
Dover sole, Non-Trawl	***	0	0	0	0	0	***
Thornyheads, Non-Trawl	***	0	0	0	0	0	***
Swordfish	0	0	0	0	0	0	0

INVERTEBRATES	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Groupings							
Dungeness crab	409,095	1,209,345	1,377,987	1,901,597	1,275,122	1,628,417	1,300,261
Red urchin	428,570	964,372	157,515	42,634	***	***	265,719
Ocean shrimp	0	***	0	0	0	0	9,564
Rock crab	7,559	4,101	8,451	2,647	***	***	3,976
Spot prawn trap	0	***	0	0	0	0	***
Market squid	0	0	***	0	***	0	***
Red abalone	0	0	0	0	0	0	0

\*See Appendix III(l) for a complete list of species for each market category.

\*\*2006 data are preliminary

\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(h): Summary of the San Francisco port complex landings (pounds), 2001-2006**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

FINFISH	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Grouping*							
Salmon	599,555	1,324,043	564,930	1,540,191	885,127	101,684	835,922
Dover sole/ Thornyheads/ Sablefish Trawl	390,833	631,341	779,334	1,317,276	639,925	427,828	697,756
Flatfishes other than Sanddabs	340,284	209,931	280,069	259,865	206,366	313,110	268,271
Sanddabs	669,333	243,226	79,337	21,811	27,159	30,553	178,570
California halibut	162,468	206,834	276,316	382,865	416,654	216,786	276,987
Coastal Pelagics	17,785	38,346	***	108	***	***	9,468
Sablefish, Non-Trawl	163,409	107,913	120,383	123,493	69,986	90,780	112,661
Slope rockfish/ Grenadier	77,302	121,327	161,305	228,653	69,915	80,882	123,231
Shelf rockfish	274,234	75,887	36,508	30,455	28,512	33,164	79,793
Swordfish	***	0	***	124,759	0	***	108,516
Tuna	75,282	16,473	11,183	46,404	***	526	27,258
Sharks, Skates, & Rays	33,124	30,690	17,617	26,234	20,772	19,815	24,709
Croaker	38,498	54,823	40,717	46,266	17,040	4,971	33,719
Nearshore finfish	47,704	24,435	7,760	7,998	13,088	17,696	19,780
Lingcod	14,248	9,892	11,822	8,781	8,200	13,677	11,103
Surfperch	8,955	18,395	17,787	23,310	11,354	5,105	14,151
Thornyheads, Non-Trawl	5,937	3,645	16,244	19,440	***	2,726	9,215
Smelt	***	5,386	3,067	8,451	2,732	2,333	3,763
Dover sole, Non-Trawl	***	0	0	***	0	0	***
Herring	0	0	0	0	0	0	0

INVERTEBRATES	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Groupings							
Dungeness crab	657,440	1,915,279	1,986,502	2,779,415	2,229,222	2,292,463	1,976,720
Market squid	0	0	2,534,519	0	0	0	422,420
Rock crab	1,509	4,475	1,916	6,059	3,548	601	3,018
Red urchin	8,641	22,978	***	41,462	***	***	15,350
Spot prawn trap	0	0	0	0	0	0	0
Ocean shrimp	0	0	0	0	0	0	0
Red abalone	0	0	0	0	0	0	0

\*See Appendix III(l) for a complete list of species for each market category.

\*\*2006 data are preliminary

\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(i): Summary of Princeton and Half Moon Bay port landings (pounds), 2001-2006**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

FINFISH	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Grouping*							
Salmon	263,978	580,720	235,351	1,122,602	762,513	106,913	512,013
Dover sole/ Thornyheads/ Sablefish Trawl	208,303	315,024	94,629	3,589	7,222	23,289	108,676
Flatfishes other than Sanddabs	232,185	194,121	178,852	209,785	263,772	328,592	234,551
Sanddabs	622,499	296,397	335,153	330,192	91,172	114,225	298,273
California halibut	101,476	124,276	125,803	151,702	199,437	179,924	147,103
Coastal Pelagics	77,009	378,535	***	815,981	681,304	444,575	399,595
Sablefish, Non-Trawl	28,387	28,773	42,360	40,082	38,462	42,270	36,722
Slope rockfish/ Grenadier	16,540	44,627	18,849	1,215	***	3,416	14,231
Shelf rockfish	113,290	48,849	6,205	6,577	4,299	6,303	30,921
Swordfish	***	0	0	0	0	0	150
Tuna	38,759	40,759	23,306	13,916	10,878	22,163	24,964
Sharks, Skates, & Rays	33,046	14,347	20,391	15,226	13,204	13,818	18,339
Croaker	7,025	2,347	6,663	2,234	1,150	2,761	3,697
Nearshore finfish	27,781	8,009	3,440	3,627	3,991	7,009	8,976
Lingcod	8,002	5,943	8,431	9,679	9,697	10,100	8,642
Surfperch	331	20	***	154	24	28	93
Thornyheads, Non-Trawl	0	***	***	***	***	***	***
Smelt	139	272	261	290	247	32	207
Dover sole, Non-Trawl	0	0	0	***	***	0	***
Herring	0	0	0	0	0	0	0

INVERTEBRATES	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Groupings							
Dungeness crab	450,993	1,019,092	1,435,192	1,269,338	1,441,662	1,478,185	1,182,410
Market squid	617,014	1,906,089	***	362,568	***	***	1,090,381
Rock crab	37,158	23,976	8,461	16,873	9,852	1,889	16,368
Red urchin	***	***	0	***	0	0	***
Spot prawn trap	0	0	0	0	0	0	0
Ocean shrimp	0	0	0	0	0	0	0
Red abalone	0	0	0	0	0	0	0

\*See Appendix III(l) for a complete list of species for each market category.

\*\*2006 data are preliminary

\*\*\* Data cannot be disclosed due to confidentiality considerations.

**Appendix III(j): Summary of the north central coast study region landings (pounds)  
 (including San Francisco Bay complex ports), 2001-2006**

Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007).

FINFISH	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Grouping*							
Salmon	1,508,034	2,729,887	2,323,643	3,664,887	2,249,405	673,851	2,191,618
Dover sole/ Thornyheads/ Sablefish Trawl	707,433	1,212,730	1,169,585	1,366,815	647,158	521,690	937,569
Flatfishes other than Sanddabs	674,912	502,654	576,530	477,398	471,400	665,234	561,355
Sanddabs	1,291,843	539,626	415,461	352,003	118,559	144,795	477,048
California halibut	273,065	345,225	427,432	555,294	632,638	401,881	439,256
Coastal Pelagics	94,794	416,881	355	816,375	681,404	445,989	409,300
Herring	***	***	***	***	***	***	***
Slope rockfish/ Grenadier	151,084	205,867	196,867	232,788	70,775	97,078	159,077
Sablefish, Non-Trawl	195,124	139,049	174,808	165,984	109,273	134,331	153,095
Tuna	458,430	164,563	71,319	118,307	42,905	47,964	150,581
Shelf rockfish	487,204	165,423	46,150	46,450	39,976	51,422	139,438
Swordfish	19,067	0	***	124,759	0	***	108,666
Nearshore finfish	95,376	59,813	25,622	42,034	47,094	45,252	52,532
Sharks, Skates, & Rays	66,391	46,714	40,100	41,871	35,405	36,109	44,432
Croaker	46,558	58,297	47,691	48,723	19,683	7,732	38,114
Lingcod	27,137	25,036	27,085	28,047	25,292	28,743	26,890
Surfperch	13,240	25,490	17,892	25,861	13,648	6,368	17,083
Thornyheads, Non-Trawl	6,024	3,686	16,586	21,327	7,332	2,796	9,625
Smelt	1,140	6,318	3,328	9,343	3,104	2,365	4,266
Dover sole, Non-Trawl	***	0	0	6,953	***	0	1,224

INVERTEBRATES	YEAR						
	2001	2002	2003	2004	2005	2006**	6-Year Average
Market Category Groupings							
Dungeness crab	1,523,583	4,149,998	4,843,105	5,984,210	4,955,287	5,434,014	4,481,700
Market squid	617,014	1,906,089	6,189,846	362,568	***	***	1,512,822
Red urchin	1,262,107	2,405,047	1,064,185	799,564	429,902	477,565	1,073,062
Rock crab	46,529	32,732	18,828	25,579	13,458	3,529	23,443
Ocean shrimp	0	***	0	0	0	0	***
Spot prawn trap	***	***	0	0	0	0	***
Red abalone	0	0	0	0	0	0	0

\*See Appendix III(i) for a complete list of species for each market category.

\*\*2006 data are preliminary

\*\*\* Data cannot be disclosed due to confidentiality considerations.

## Appendix III(k): Profile of major commercial fisheries in the north central coast study region

### Fishery: California Halibut

**Species targeted:** California halibut (*Paralichthys californicus*)

**Primary depth range:** 4 to 92 meters (2 to 50 fathoms)

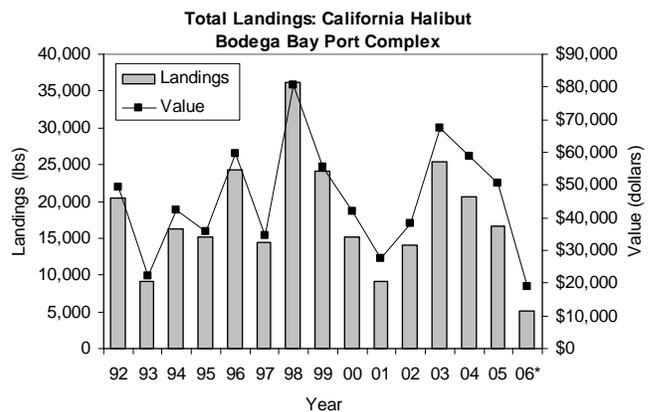
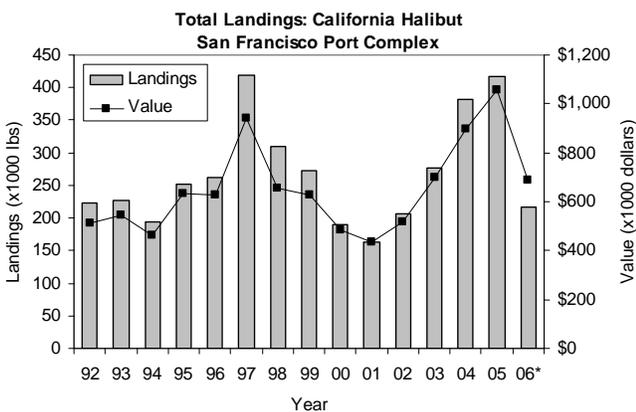
**Primary habitat type(s):** Sand

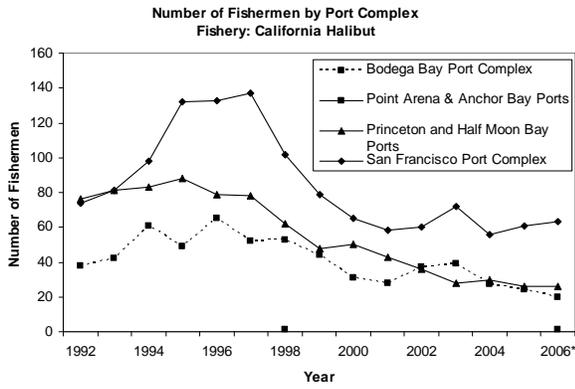
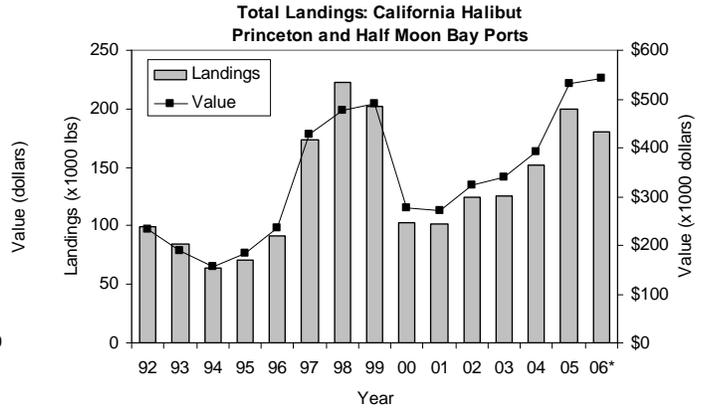
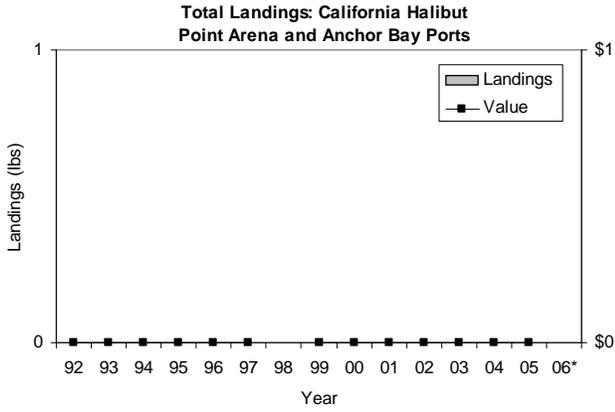
**Primary area of fishery:** State waters (x) Federal waters (x)

### Synopsis of commercial regulations applicable to the north central coast study region:

The California Fish and Game Commission has authority over state-managed bottom trawl fisheries not managed under federal regulations, which includes regulations pertaining to California halibut. Trawling for halibut in state waters is prohibited outside of the California halibut trawl grounds, located from 1 - 3 nautical miles from Point Arguello south to Point Mugu with a minimum mesh size of 7.5 inches. Trawling is open from June 16 through March 14. Halibut less than 22 inches may not be taken or sold. Gill and trammel nets are prohibited in waters less than 60 fathoms from Point Reyes Headlands south to Point Arguello. In areas where gill and trammel nets are legal, the minimum mesh size is 8.5 inches. Gill and trammel nets may not exceed 1,500 fathoms (9,000 feet) in length in most areas. Gill nets are prohibited south of Point Arguello.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Croaker**

**Species targeted:** White croaker (*Genyonemus lineatus*)

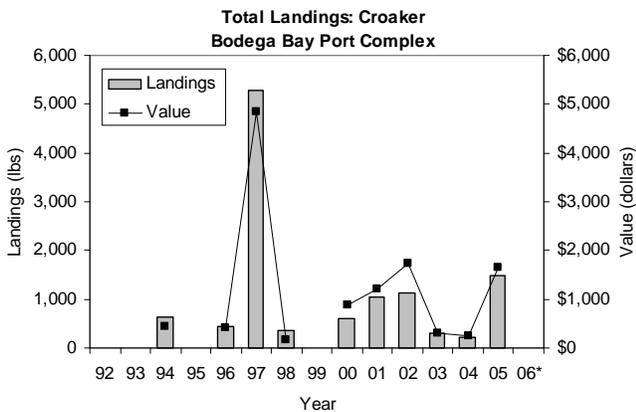
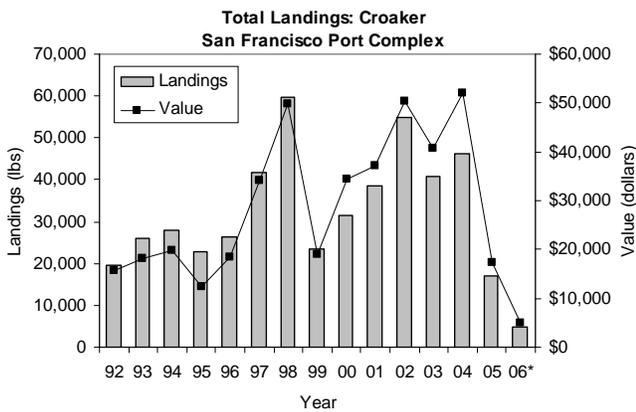
**Primary depth range:** 3 to 30 meters (2 to 17 fathoms)

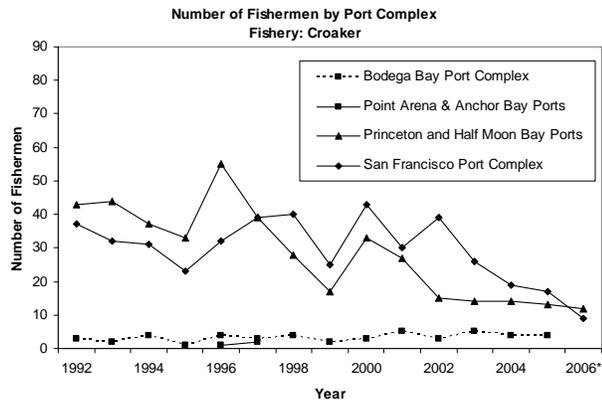
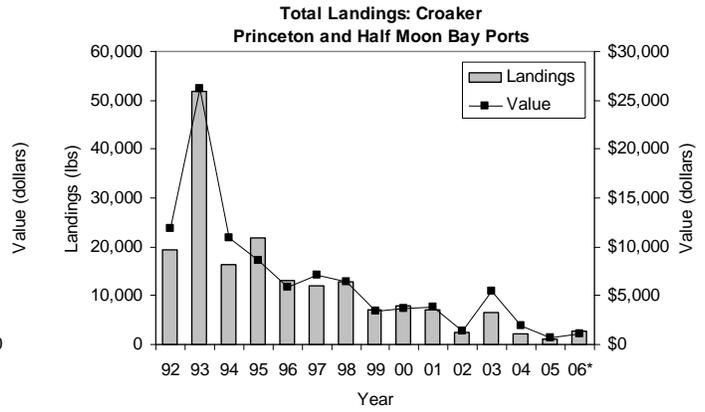
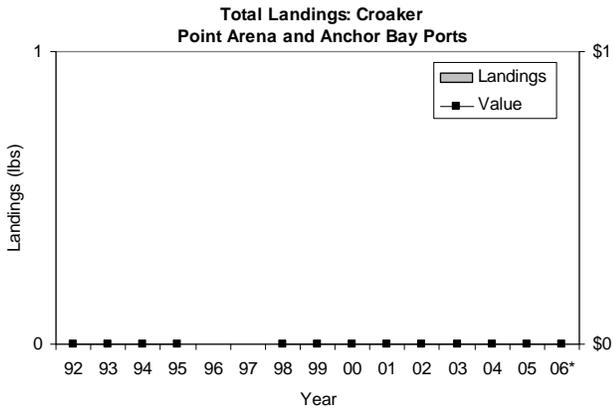
**Primary habitat type(s):** Nearshore soft bottoms

**Primary area of fishery:** State waters (x) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:**  
 Gill nets can not be used from Point Reyes to Point Arguello in waters 60 fathoms or less.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Dover Sole / Thornyhead / Sablefish (non-trawl)**

**Species targeted:**

Dover sole (*Microstomus pacificus*),  
Longspine thornyhead (*Sebastolobus altivelis*),  
Shortspine thornyhead (*S. alascanus*),  
Sablefish (*Anoplopoma fimbria*)

**Primary depth range:** 274 to 1,280 meters (150 to 700 fathoms)

**Primary habitat type(s):** Soft bottom, low-relief mixed and hard bottom

**Primary area of fishery:** State waters (x) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**

The Rockfish Conservation Area (RCA) for open access gears and limited entry fixed gear is from 30 to 150 fathoms in the north central coast study region. A federal permit is required to fish outside of the RCA. There are two types of non-trawl fisheries: open access gears and limited entry fixed gear.

Trip limits for the 2007 season (open access gears):

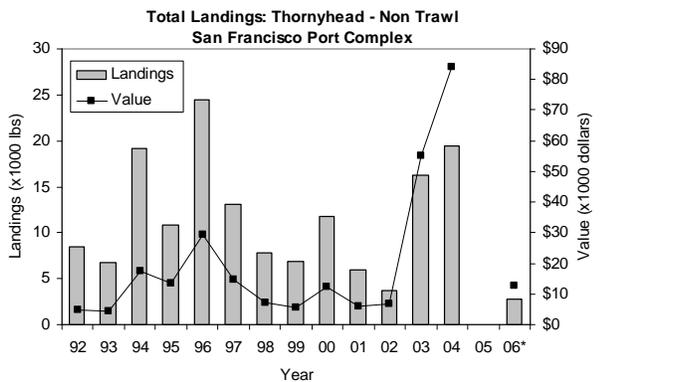
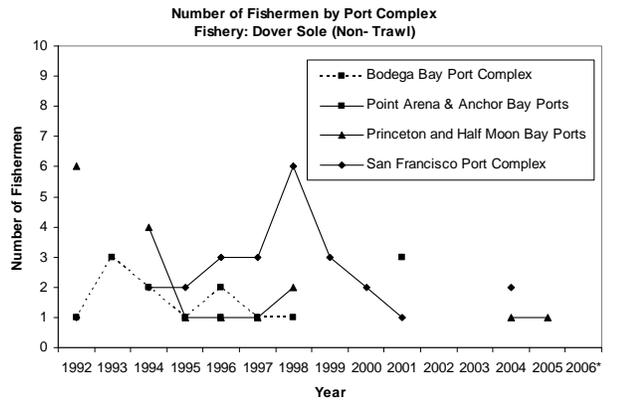
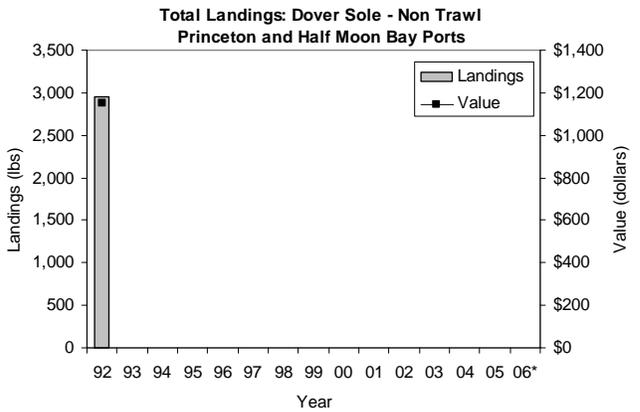
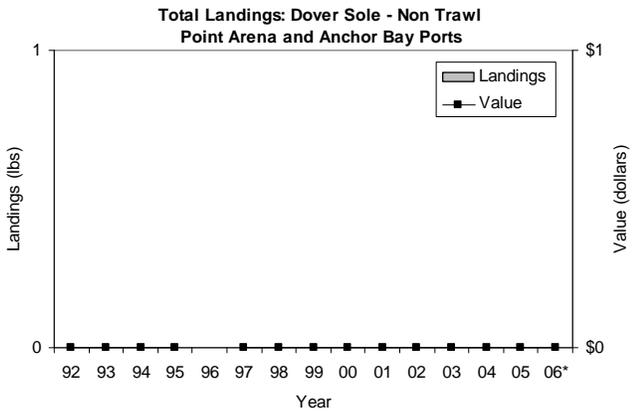
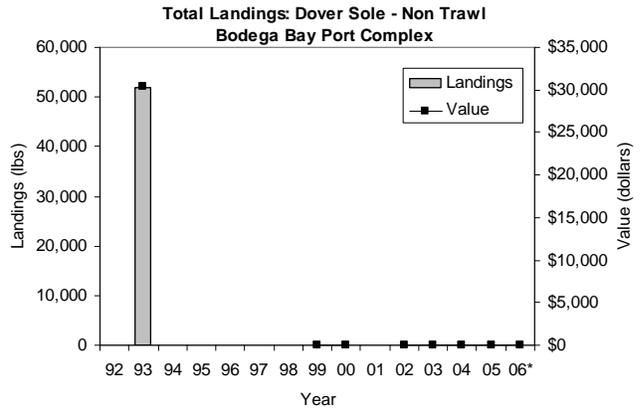
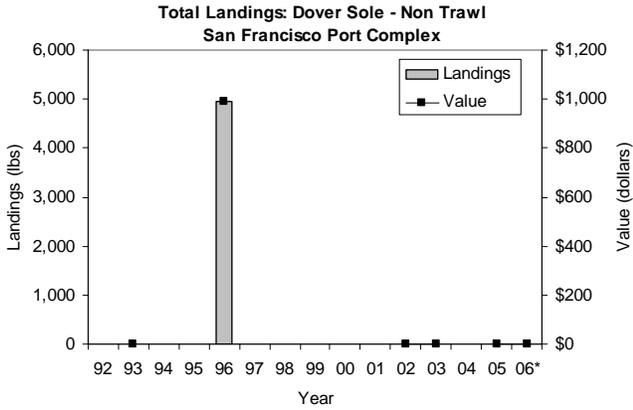
- Sablefish (*Anoplopoma fimbria*): 300 lbs/ day, or one landing of up to 700 lbs, not to exceed 2,100 lbs/ 2 months
- Thornyheads (*Sebastolobus spp.*): Closed

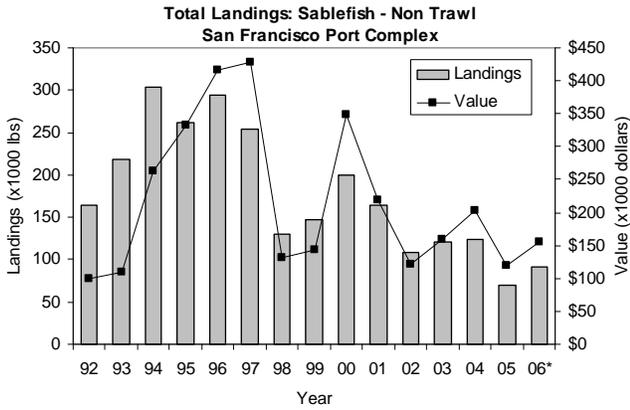
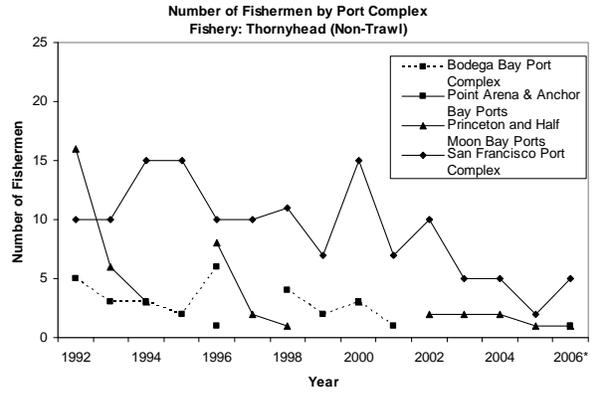
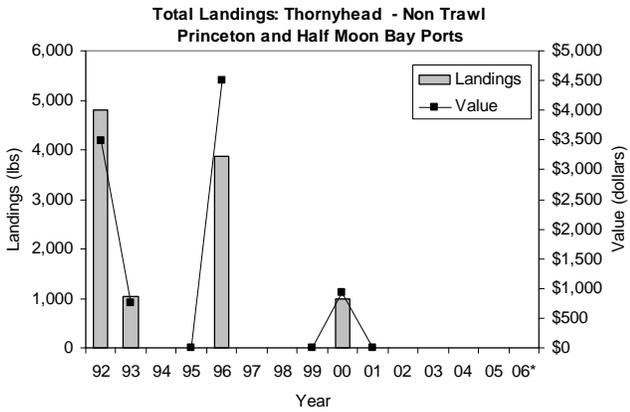
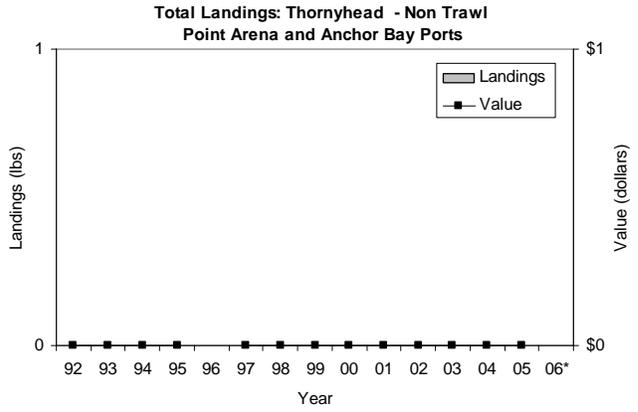
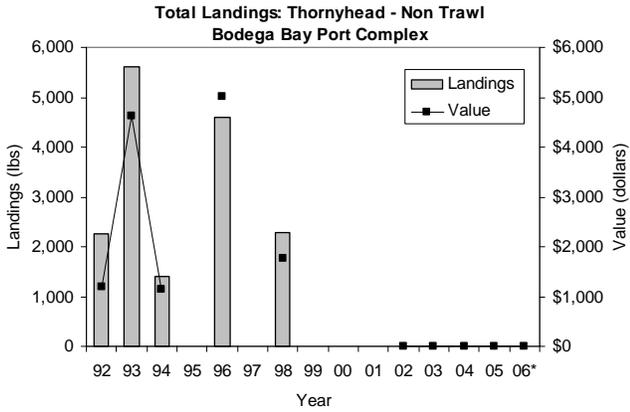
Trip limits for the 2007 season (limited entry gear):

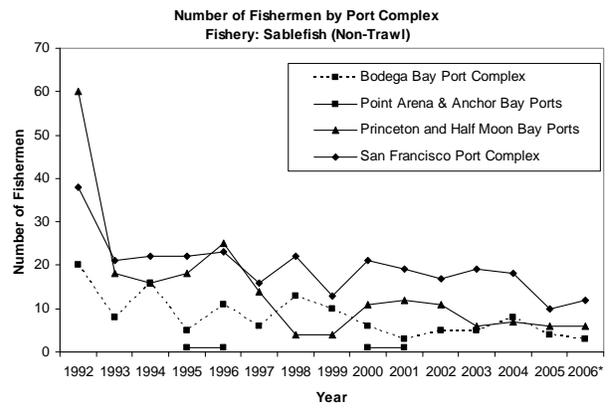
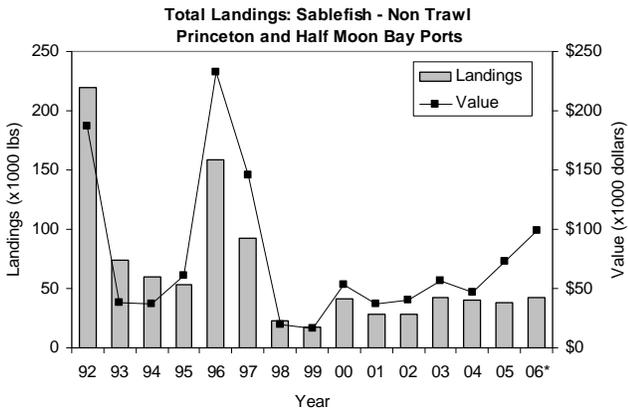
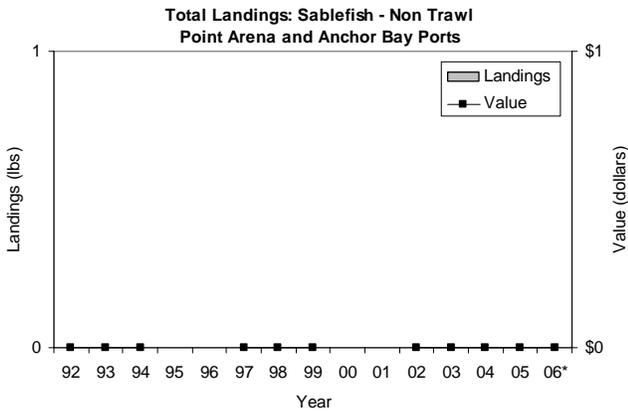
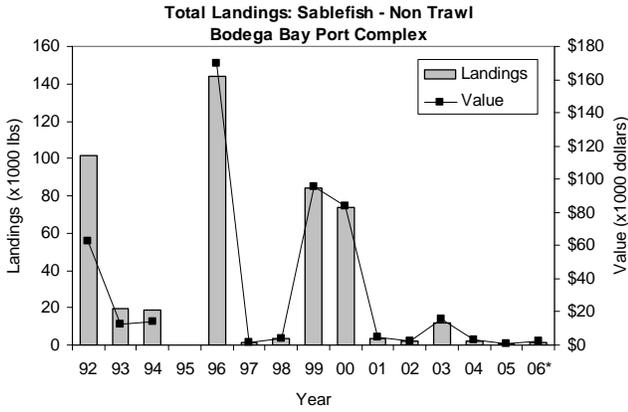
- Sablefish (*Anoplopoma fimbria*): 300 lbs/ day, or one landing of up to 1,000 lbs, not to exceed 5,000 lbs/ 2 months
- Longspine thornyhead (*S. altivelis*): 10,000 lbs/ 2 months
- Shortspine thornyhead (*S. alascanus*): 2,000 lbs/ 2 months

For both permit types, Dover sole (*Microstomus pacificus*) trip limits fall under the flatfish limits (see Flatfishes).

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:







**Fishery: Dover Sole / Thornyhead / Sablefish (trawl)**

**Species targeted:**

Dover sole (*Microstomus pacificus*),  
Longspine thornyhead (*Sebastolobus altivelis*),  
Shortspine thornyhead (*S. alascanus*),  
Sablefish (*Anoplopoma fimbria*)

**Primary depth range:** 274 to 1,280 meters (150 to 700 fathoms)

**Primary habitat type(s):** Soft bottom, low-relief mixed and hard bottom

**Primary area of fishery:** State waters ( ) Federal waters (x)

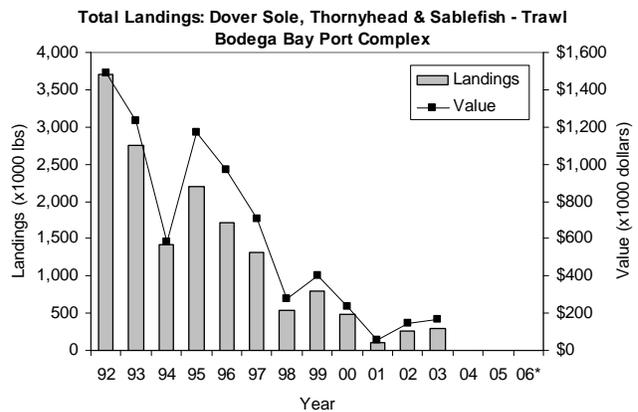
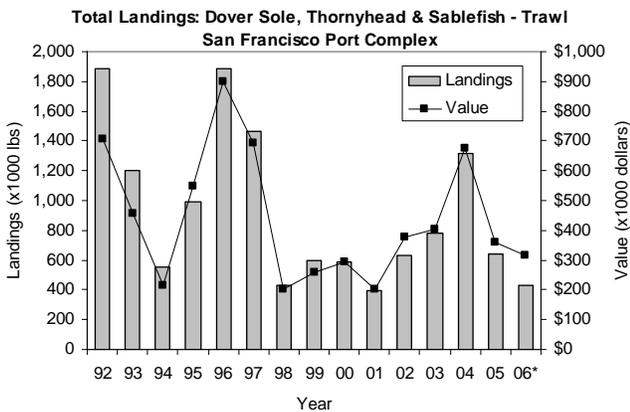
**Synopsis of commercial regulations applicable to the north central coast study region:**

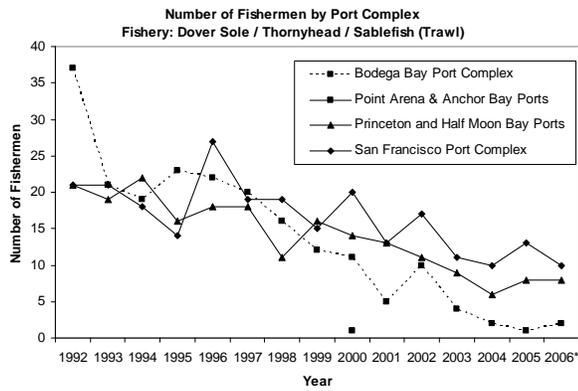
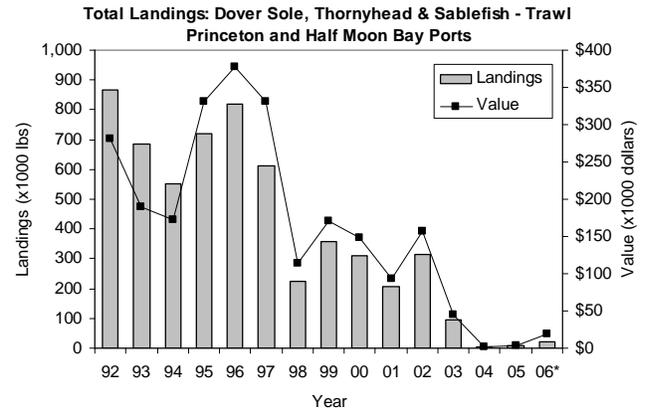
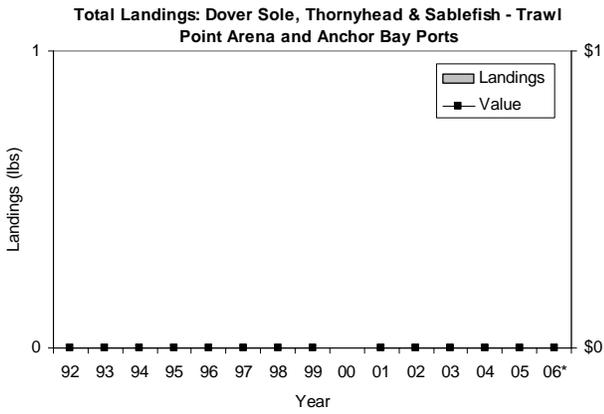
Trawling for fish is prohibited within the Rockfish Conservation Area (RCA). A federal permit is required to fish outside the RCA. The limited entry trawl fishery is open all year with two-month trip limits in effect. The RCA for this fishery in the north central coast study region is from 100 to 150 fathoms.

Trip limits for the 2007 season:

- Dover sole (*Microstomus pacificus*): 70,000 lbs/ 2 months
- Sablefish (*Anoplopoma fimbria*): 14,000 lbs/ 2 months
- Longspine thornyhead (*Sebastolobus altivelis*): 22,000 lbs/ 2 months
- Shortspine thornyhead (*S. alascanus*): 7,500 lbs/ 2 months

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Dungeness Crab**

**Species targeted:** Dungeness crab (*Cancer magister*)

**Primary depth range:** 0 to 91 meters (0 to 50 fathoms)

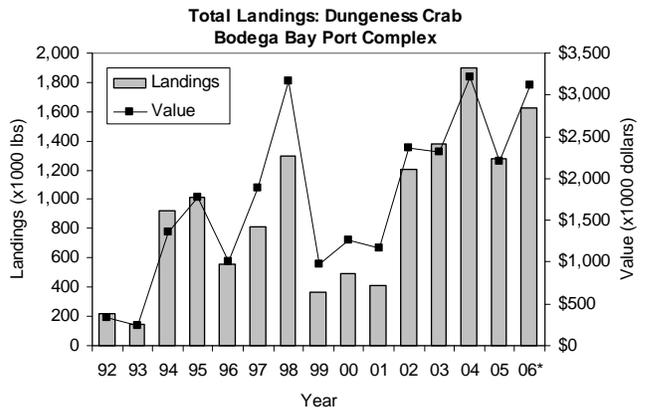
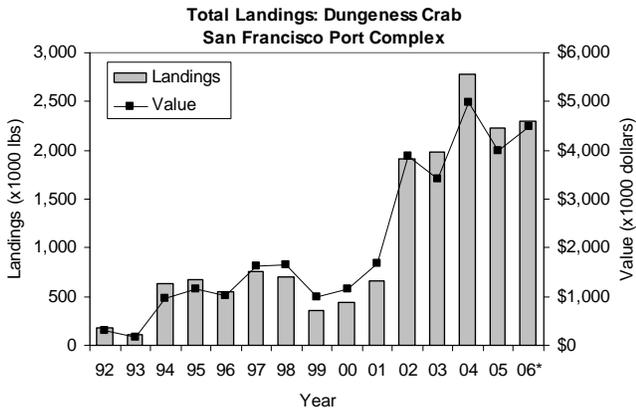
**Primary habitat type(s):** Sand

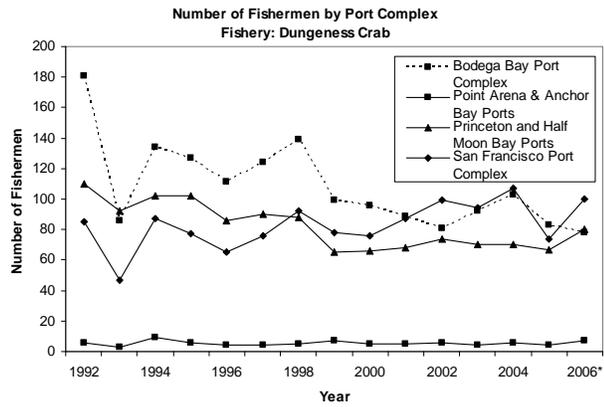
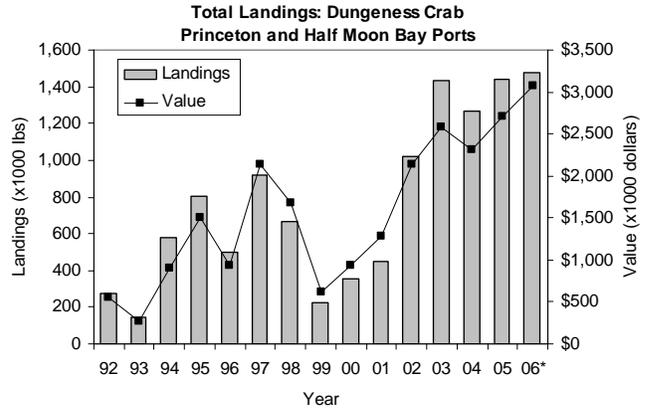
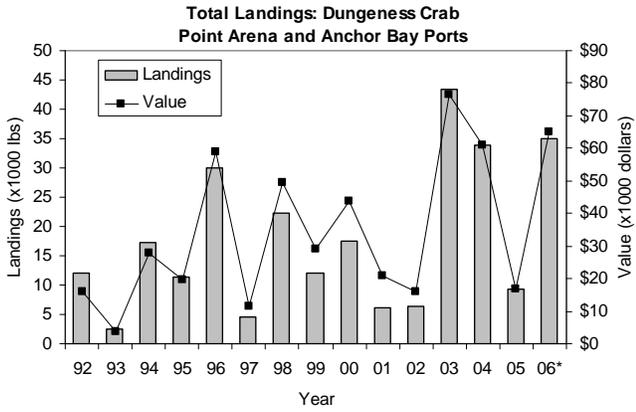
**Primary area of fishery:** State waters (x) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**

The season is open from November 15 through June 30. This is a restricted access fishery with a vessel-based permit system. Only males with a minimum carapace width of 6.25 inches may be taken. There is currently no limit on the number of traps per vessel. Closures include the area of Bodega Lagoon.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





## **Fishery: Lingcod**

**Species targeted:** Lingcod (*Ophiodon elongatus*).

Lingcod are generally not specifically targeted but are so widespread that they are caught in most hard-bottom oriented fisheries targeting rockfishes, cabezon, and other species.

**Primary depth range:** 2 to 366 meters (1 to 200 fathoms)

**Primary habitat type(s):** Deep and shallow rocky reef, mixed substrate, hard bottoms, canyons

**Primary area of fishery:** State waters (x) Federal waters (x)

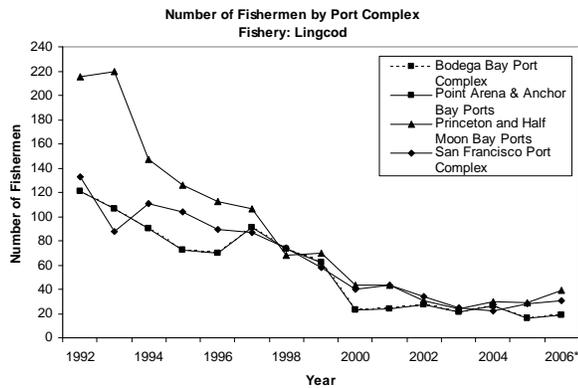
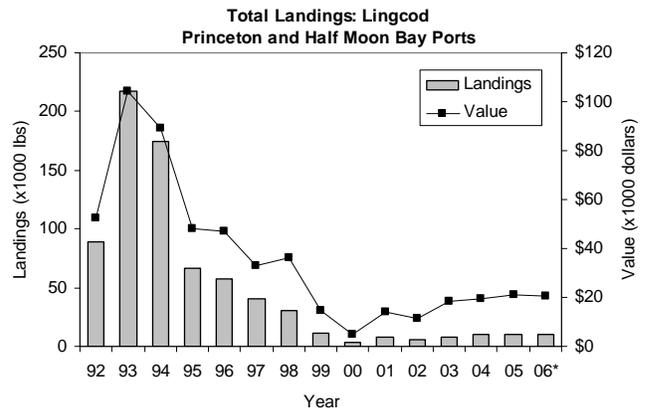
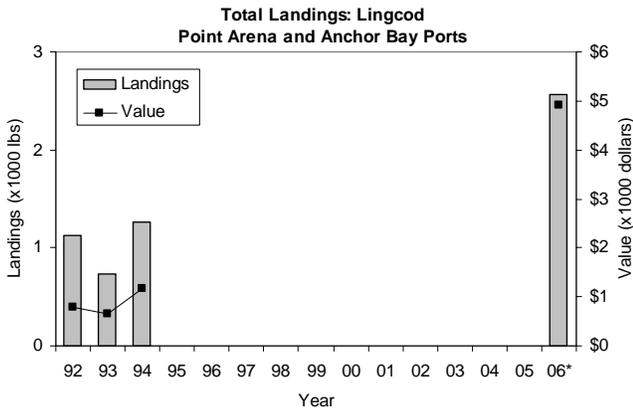
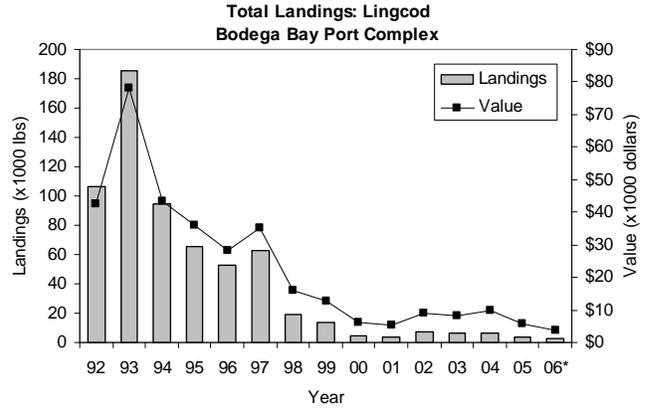
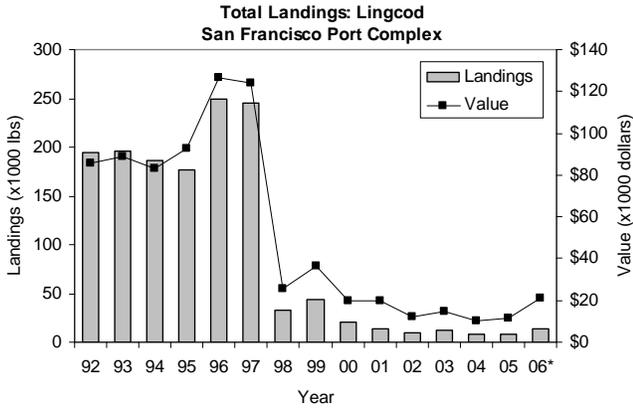
### **Synopsis of commercial regulations applicable to the north central coast study region:**

Within the Rockfish Conservation Area (RCA), the taking of lingcod is prohibited. The minimum legal size for lingcod is 24 inches. A federal permit is required to fish outside the RCA. There are three types of federal permits: trawl limited entry, fixed gear limited entry, non-trawl open access.

For the 2007 season:

- The trawl limited entry fishery is open year round with a 1,200 lbs / 2 months trip limit. The RCA for this fishery in the north central coast study region is from 100 to 150 fathoms.
- The limited entry fixed gear fishery is closed from December through April. Trip limits are in effect and include a limit of 800 lbs / 2 months from May through October and 400 lbs in November. The RCA for this fishery in the north central coast study region is from 30 to 150 fathoms.
- The open access gear fishery is closed from December through April and has a 400 lbs / month limit from May through November. The RCA for this fishery in the MLPA North Central Coast Study Region is from 30 to 150 fathoms.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:



**Fishery: Market squid**

**Species targeted:** Market squid (*Loligo opalescens*)

**Primary depth range:** 15 to 46 meters (8 to 25 fathoms)

**Primary habitat type(s):** Pelagic waters, sandy bottoms (spawning)

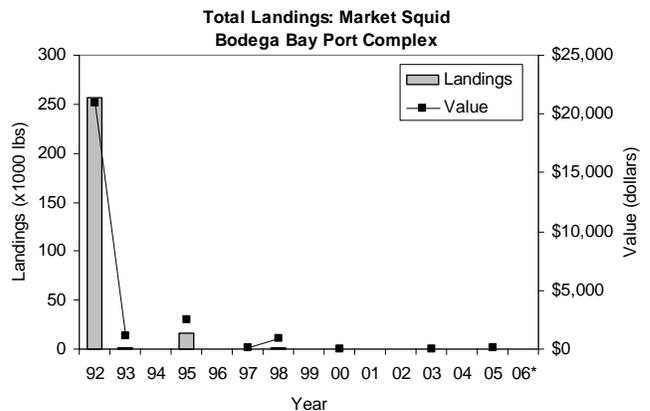
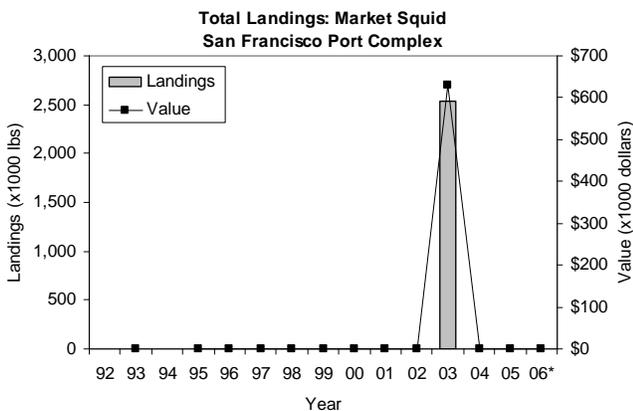
**Primary area of fishery:** State waters (x) Federal waters ( )

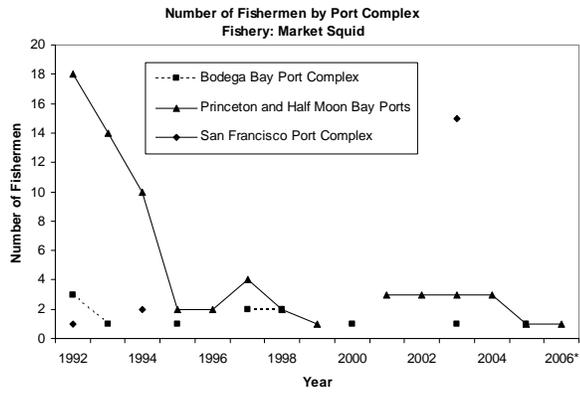
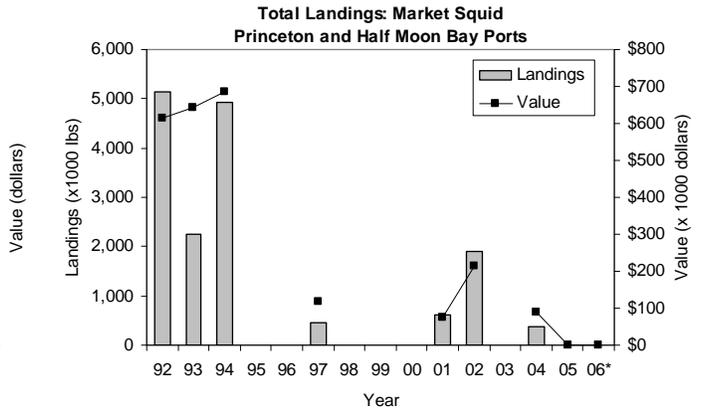
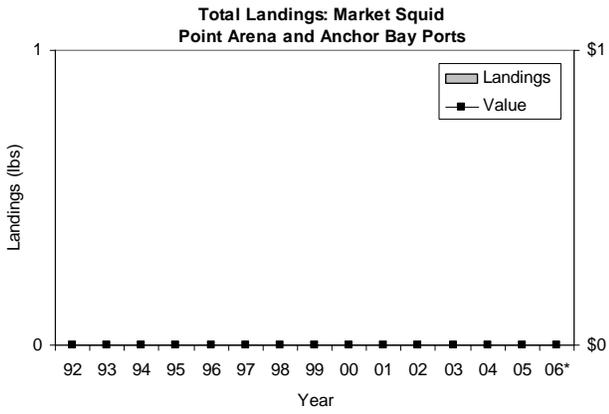
**Synopsis of commercial regulations applicable to the north central coast study region:**

In 2004, the California Fish and Game Commission adopted a comprehensive Market Squid Fishery Management Plan (MSFMP). The season for market squid is April 1 through March 31, which reflects the term of the permit. This fishery is managed with fishery control rules. These rules include:

- Restricted access.
- State-wide catch limit of 118,000 tons per season.
- Weekend closures from noon Friday to noon Sunday.
- Fishery monitoring through the use of port sampling and mandatory logbooks.
- Gear restrictions including a 30,000 wattage limit and lighting closure within the Gulf of the Farallons National Marine Sanctuary.
- Monitoring of populations using the egg escapement method.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





## **Fishery: Nearshore Finfish**

### **Species targeted:**

Black rockfish (*Sebastes melanops*),  
Black-and-yellow rockfish (*S. chrysomelas*),  
Blue rockfish (*S. mystinus*),  
Brown rockfish (*S. auriculatus*),  
Calico rockfish (*S. dalli*),  
China rockfish (*S. nebulosus*),  
Copper rockfish (*S. caurinus*),  
Gopher rockfish (*S. carnatus*),  
Grass rockfish (*S. rastrelliger*),  
Kelp rockfish (*S. atrovirens*),  
Olive rockfish (*S. serranoides*),  
Treefish (*S. serriceps*),  
Quillback rockfish (*S. maliger*),  
Cabezon (*Scorpaenichthys marmoratus*),  
Kelp greenling (*Hexagrammos decagrammus*),  
Rock greenling (*Hexagrammos lagocephalus*),  
Monkeyface prickleback (*Cebiduchthys violaceus*),  
California scorpionfish (*Scorpaena guttata*)

**Primary depth range:** 0 to 37 meters (0 to 20 fathoms)

**Primary habitat type(s):** Nearshore rocky reefs, kelp

**Primary area of fishery:** State waters (x) Federal waters ( )

### **Synopsis of commercial regulations applicable to the north central coast study region:**

A comprehensive Nearshore Fishery Management Plan (FMP) was adopted by the California Fish and Game Commission in May 2002. The FMP established four management areas for the nearshore fishery; the MLPA North Central Coast Study Region (Alder Creek/Point Arena to Pigeon Point) is entirely contained within the Nearshore FMP North Central Coast management area. This is a restricted access fishery, and nearshore fishery permits may only be used within the management area for which they were issued for the minor shallow rockfishes, including California scorpionfish, cabezon, greenlings, and California sheephead.

Minimum size limits:

- 10 inches:
  - Black-and-yellow rockfish (*Sebastes chrysomelas*)
  - Gopher rockfish (*Sebastes carnatus*)
  - Kelp rockfish (*Sebastes atrovirens*)
  - California scorpionfish (*Scorpaena guttata*)
- 12 inches:

Kelp greenling (*Hexagrammos decagrammus*)  
 Rock greenling (*Hexagrammos lagocephalus*)  
 China rockfish (*Sebastes nebulosus*)  
 Grass rockfish (*Sebastes rastrelliger*)

Deeper nearshore species fishery permits are required for:

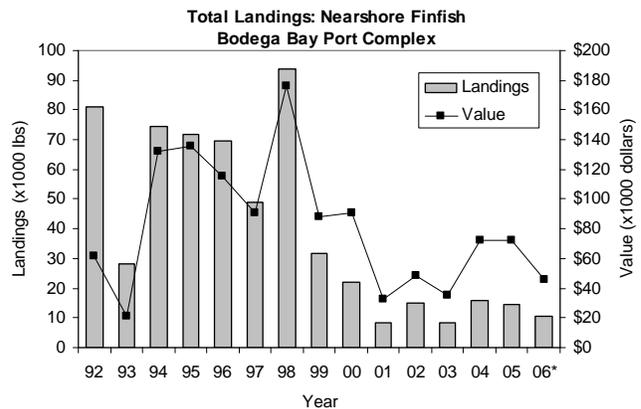
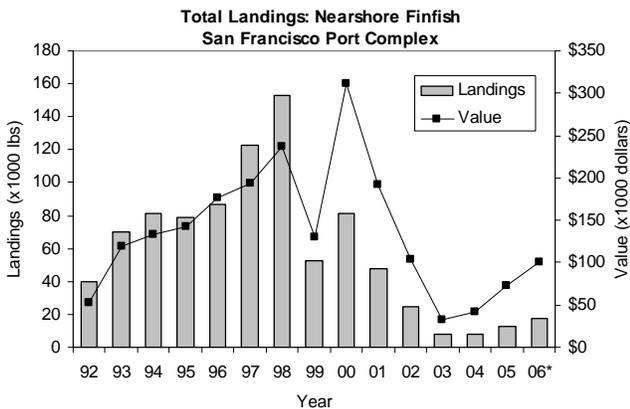
Black rockfish (*Sebastes melanops*)  
 Blue rockfish (*Sebastes mystinus*)  
 Brown rockfish (*Sebastes auriculatus*)  
 Calico rockfish (*Sebastes dalli*)  
 Copper rockfish (*Sebastes caurinus*)  
 Olive rockfish (*Sebastes serranoides*)  
 Quillback rockfish (*Sebastes maliger*)  
 Treefish (*Sebastes serriceps*)

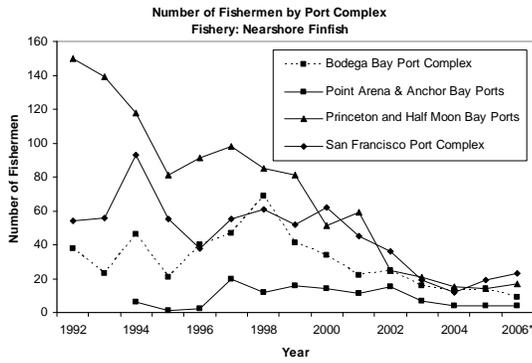
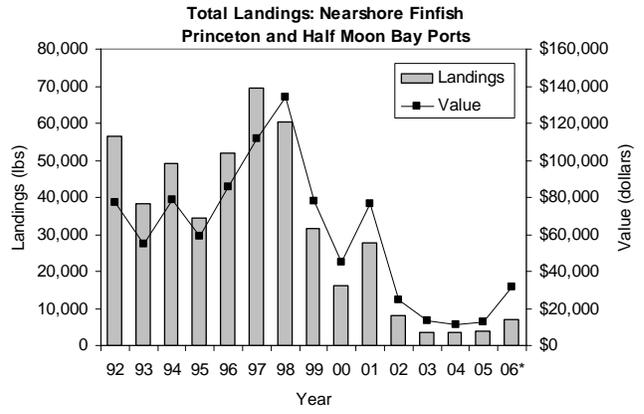
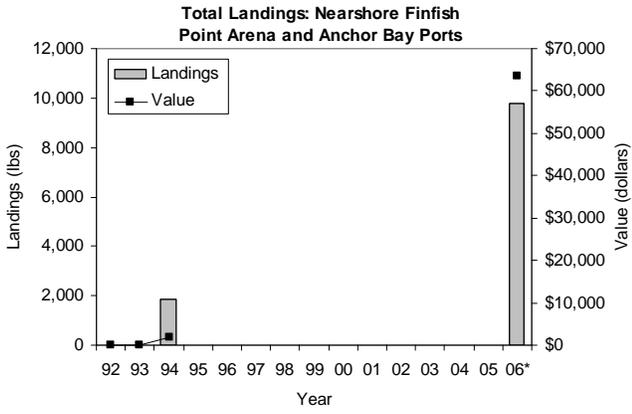
The deeper nearshore species fishery permit is a statewide permit. Cumulative two-month trip limits per permit are in effect. The season may be closed early if the harvest guidelines are met or exceeded. The limited entry fixed gear and open access gear fishery has a closure in effect from March through April for the 2007 season. There are year-long closures for limited entry trawl permit holders using large footrope or midwater trawls.

Cabezon (*Scorpaenichthys marmoratus*): The minimum size limit for cabezon is 15 inches.

The statewide annual total allowable catch for cabezon is 152,100 lbs with 59,300 lbs allocated for commercial harvest. The season may be closed early if the total allowable catch (TAC) allocation is met or exceeded.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Ocean Shrimp**

**Species targeted:** Ocean Shrimp (*Pandalus jordani*)

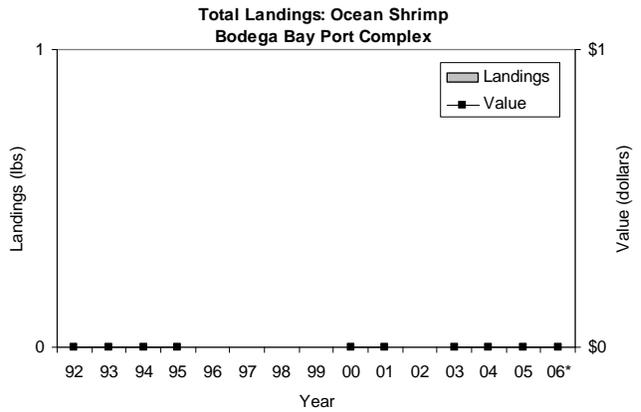
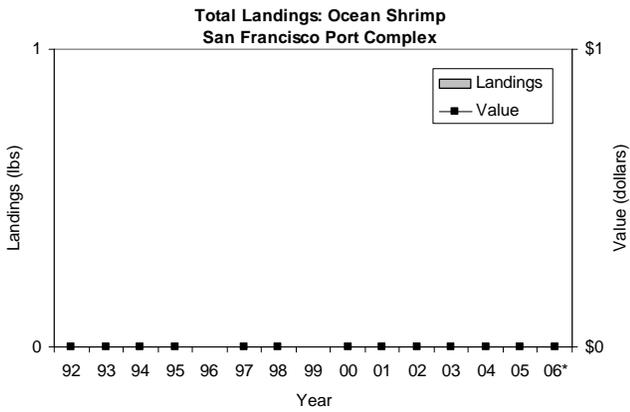
**Primary depth range:** 73 to 229 meters (40 to 125 fathoms)

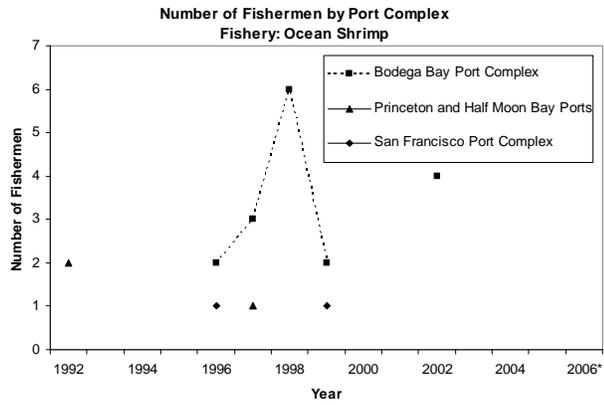
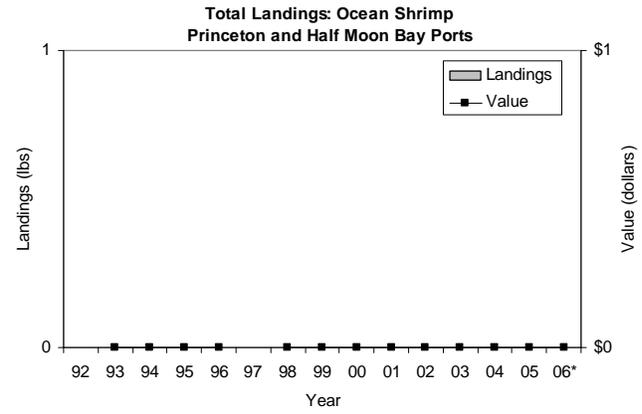
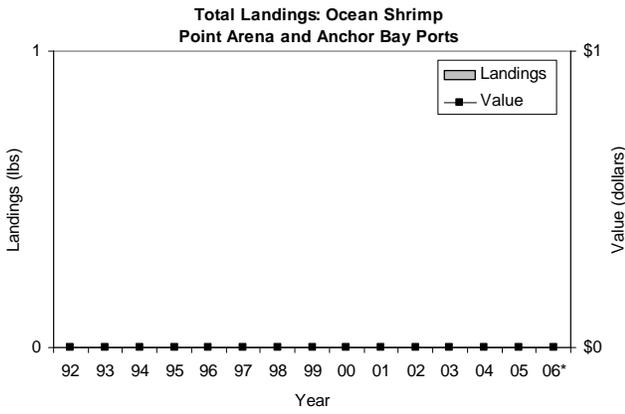
**Primary habitat type(s):** Sand and mud bottoms, pelagic (during dark hours)

**Primary area of fishery:** State waters (x) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**  
 The season is open from April 1 through October 31. Only otter trawls or beam trawl nets may be used for harvesting ocean shrimp with a mesh size of at least 1<sup>3</sup>/<sub>8</sub> inches in designated areas. Approved bycatch reduction devices are required on all nets. A maximum count of 160 shrimp per pound is required. This is a restricted access fishery and a regional permit is required. Limits are in effect for the maximum amount of fish which may be landed incidental to ocean shrimp. Spot prawns shall not be landed as incidental catch.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





## **Fishery: Other Flatfishes**

### **Species targeted:**

Arrowtooth flounder (*Atheresthes stomias*),  
Starry flounder (*Platichthys stellatus*),  
Bigmouth sole (*Hippoglossina stomata*)  
Butter sole (*Pleuronectes isolepis*),  
C-O sole (*Pleuronichthys coenosus*)  
English sole (*Pleuronectes vetulus*),  
Fantail sole (*Xystreurus liolepis*)  
Petrale sole (*Eopsetta jordani*),  
Rex sole (*Errex zachirus*),  
Rock sole (*Pleuronectes bilineata*),  
Sand sole (*Psettichthys melanostictus*),  
Slender sole (*Eopsetta exilis*),  
Curlfin turbot (*Pleuronichthys decurrens*),  
Diamond turbot (*Hypsopsetts guttulata*)  
Hornyhead turbot (*Pleuronichthys verticalis*),  
Spotted turbot (*Pleuronichthys ritteri*)

**Primary depth range:** 55 to 1,280 meters (30 to 700 fathoms)

**Primary habitat type(s):** Low-relief, mixed and hard bottoms

**Primary area of fishery:** State waters (x) Federal waters (x)

### **Synopsis of commercial regulations applicable to the north central coast study region:**

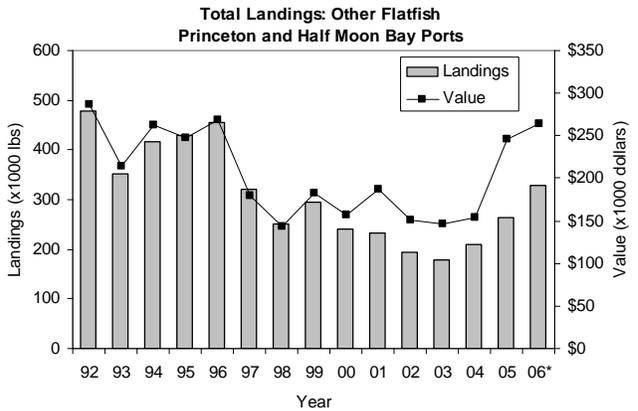
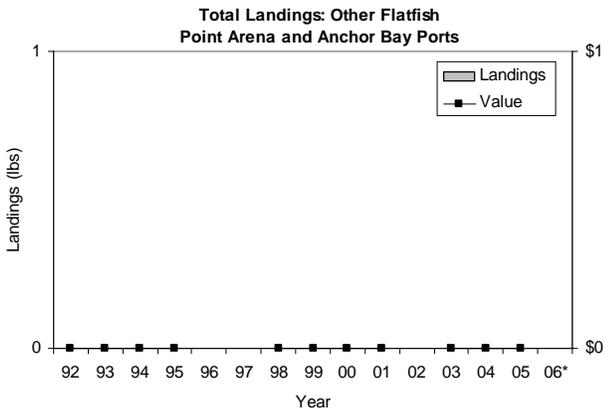
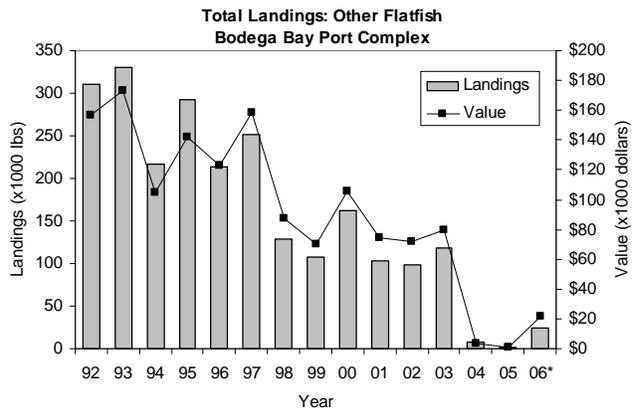
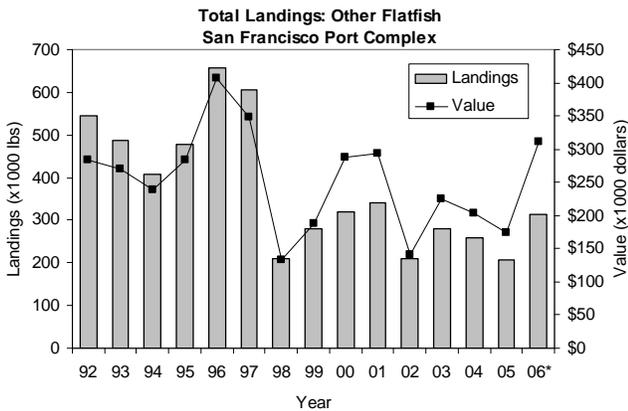
Trawling for fish is prohibited within the Rockfish Conservation Area (RCA). A federal permit is required to fish outside the RCA. There are three types of federal permits: trawl limited entry, fixed gear limited entry, non-trawl open access. Within the MLPA North Central Coast Study Region (Alder Creek/Point Arena to Pigeon Point), the RCA for commercial fishing is 30 to 150 fathoms for fixed gears limited entry and open access gears and from 100 to 150 fathoms for limited entry trawlers.

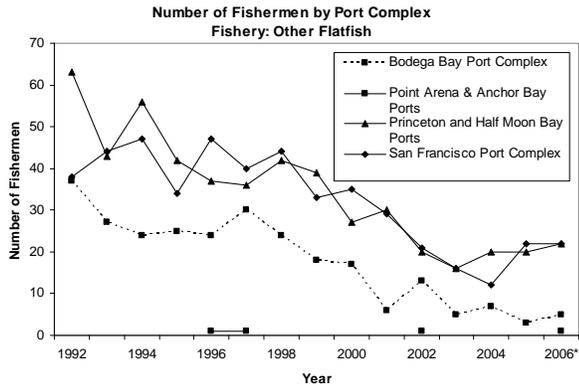
For the 2007 season:

- The limited entry trawl fishery is open all year with two-month trip limits in effect. The RCA for this fishery in the study region is from 100 to 150 fathoms.
- The limited entry fixed gear fishery operates on cumulative trip limits and is open all year. The trip limits for the 2007 season are 5,000 lbs per month. The RCA for this fishery in the study region is from 30 to 150 fathoms. With appropriate gear, fishermen may fish within the RCA.
- The open access gear fishery operates on cumulative trip limits and is open all year. The trip limit for the 2007 season is 3,000 lbs per month, with no more than 300 lbs in species other than Pacific sanddabs (*Citharichthys sordidus*). The RCA for this fishery in the north

central coast study region is from 30 to 150 fathoms. With appropriate gear, fishermen may fish within the RCA.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





## **Fishery: Pelagic Wetfish (Coastal Pelagic Species)**

### **Species targeted:**

Pacific sardine (*Sardinops sagax*),  
Northern anchovy (*Engraulis mordax*),  
Jack mackerel (*Trachurus symmetricus*),  
Pacific mackerel (*Scomber japonicus*)

**Primary depth range:** 9 to 91 meters (5 to 50 fathoms)

**Primary habitat type(s):** Sand, pelagic / open ocean

**Primary area of fishery:** State waters (x) Federal waters ( )

### **Synopsis of commercial regulations applicable to the north central coast study region:**

This fishery is federally managed with guidance from the Pacific Fishery Management Council (PFMC) Coastal Pelagic Species (CPS) Management Plan. The plan dictates methods for stock assessment, quota limits, restricted access and harvest allocation.

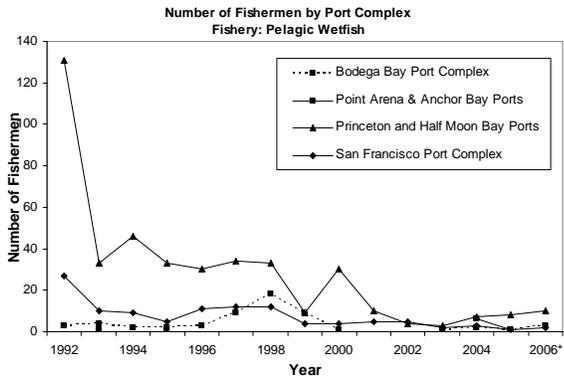
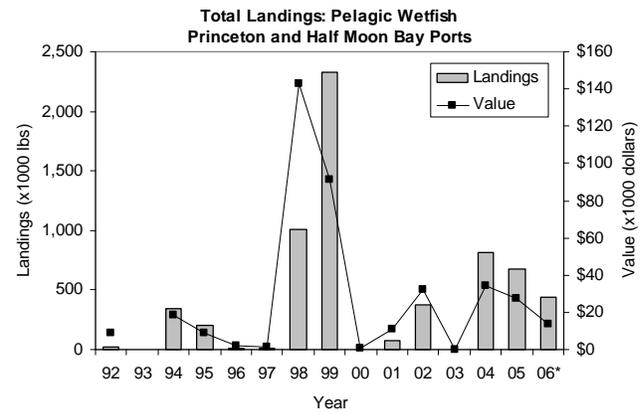
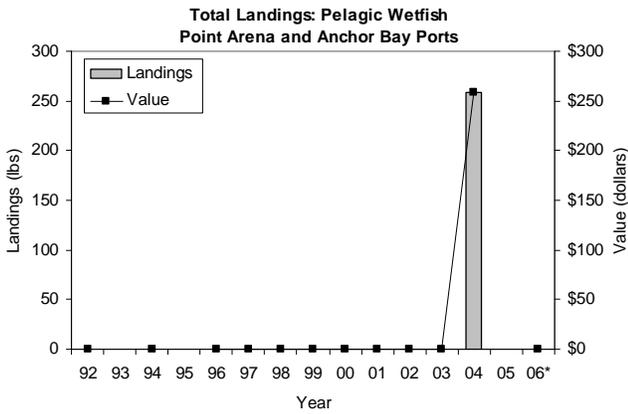
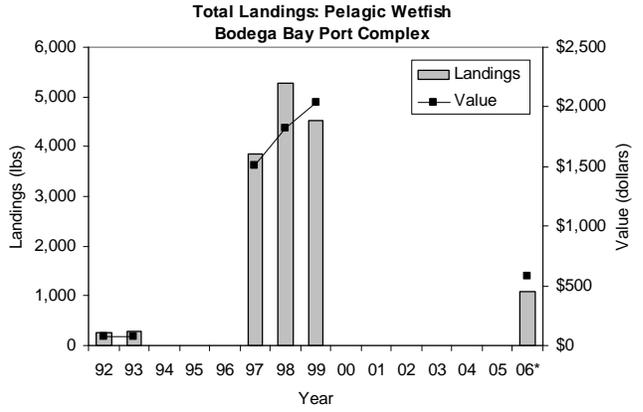
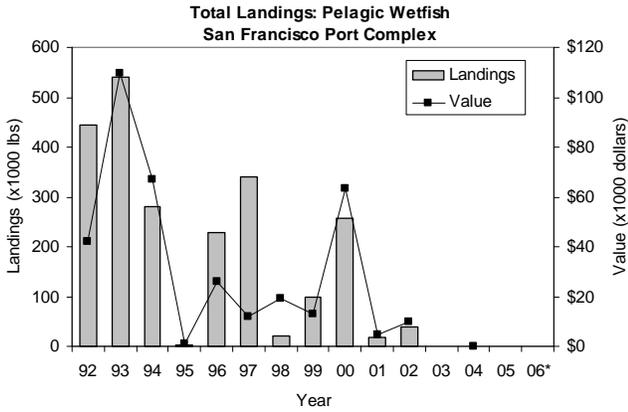
**Pacific Sardine:** The season is open from January 1 through December 31. Harvest guidelines for 2006 were set at 118,937 metric tons. Harvest follows an allocation scheme where 35% of the total allowable harvest is allocated coast wide on January 1, 40% of the harvest guideline, plus any portion not harvested from the initial allocation is reallocated coast wide on July 1, and on September 15 the remaining 25%, plus any portion not harvested from earlier allocations, is reallocated.

**Pacific Mackerel:** The season is open from July 1 through June 30. The harvest guideline for 2005-2006 fishing season was 17,419 metric tons.

**Northern Anchovy:** The season is open from August 1 through June 30 in the Northern Permit Area (Point Buchon to the Oregon Border). This fishery is closed to reduction fishing (for non direct human consumption) in the areas around the Gulf of the Farallones National Marine Sanctuary.

**Jack Mackerel:** This species is considered a monitored species under the CPS Management Plan. No harvest guidelines or quotas are in place for this fishery.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:



**Fishery: Red Abalone\*\***

**Species targeted:** Red Abalone (*Haliotis rufescens*)

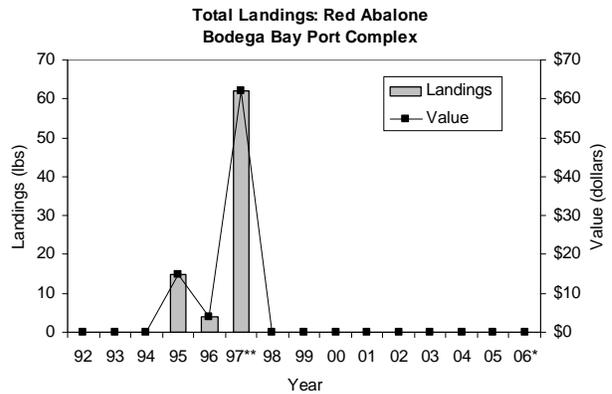
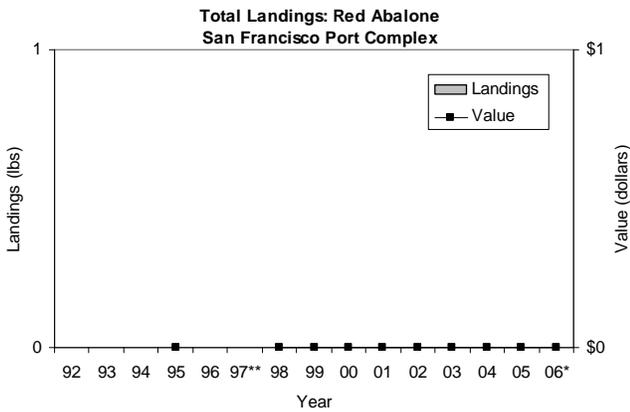
**Primary depth range:** 0 to 15 meters (0 to 8 fathoms)

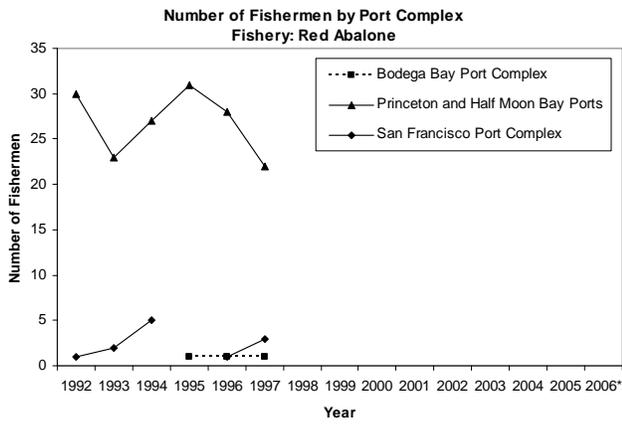
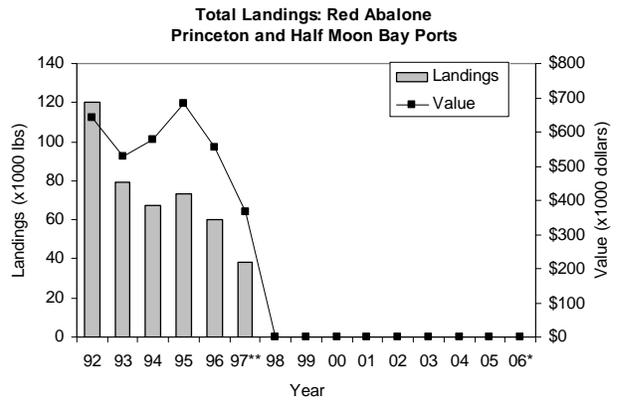
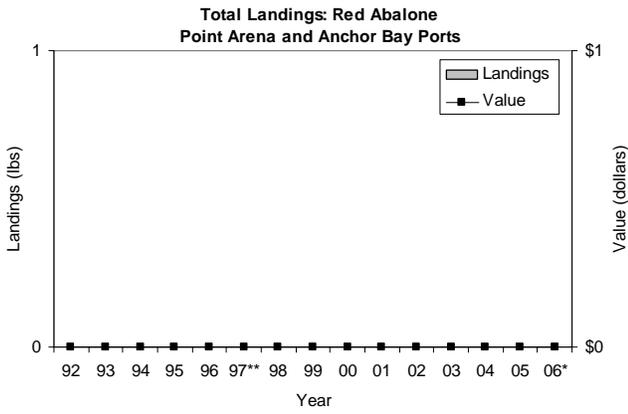
**Primary habitat type(s):** Nearshore rocky habitat

**Primary area of fishery:** State waters (x) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:** Red abalone may no longer be taken for commercial purposes. \*\*The prohibition on commercial take of this species began in 1997.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary. \*\*The prohibition on commercial take of this species began in 1997.





**Fishery: Red Urchin**

**Species targeted:** Red urchin (*Strongylocentrotus franciscanus*)

**Primary depth range:** 4 to 27 meters (2 to 15 meters)

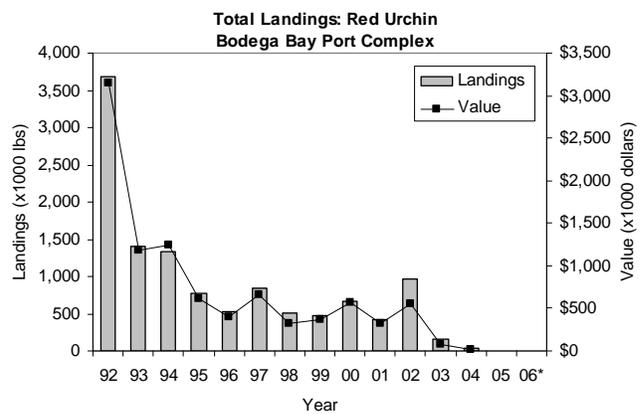
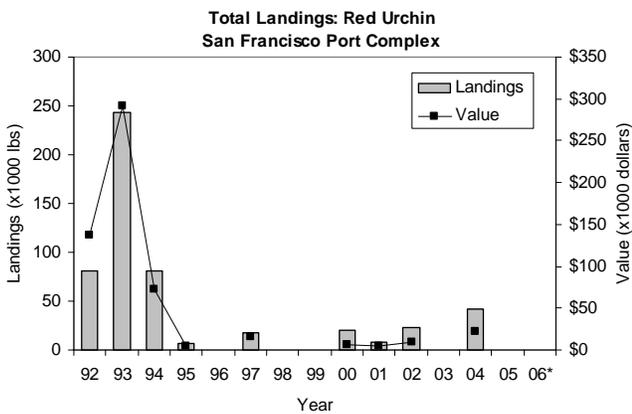
**Primary habitat type(s):** Rocky reefs, kelp and hard bottoms

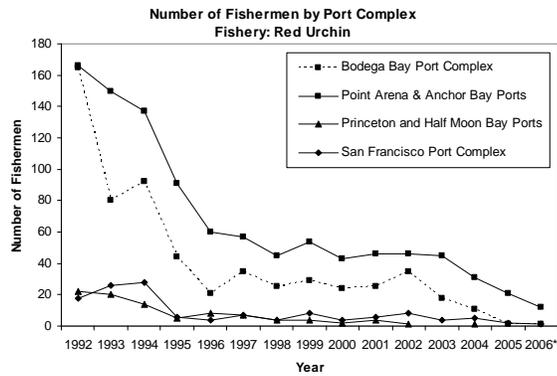
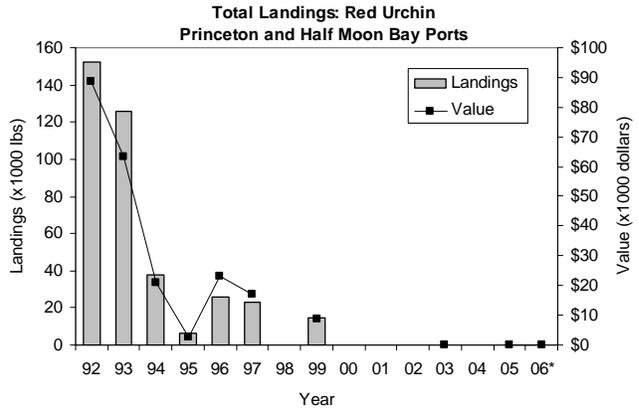
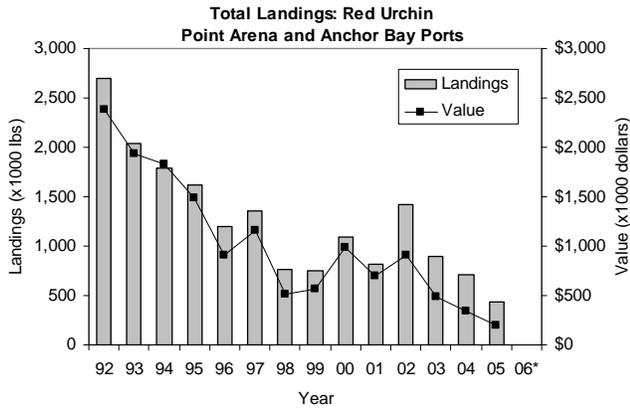
**Primary area of fishery:** State waters (x) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:**

This is a restricted access fishery requiring an urchin diving permit. There are no landing requirements to renew the permit. The season is open seven days per week from November 1 through March 31. The season is open four days a week in April, May, September and October, three days a week in June and August, and two days a week in July. Urchins harvested north of the Monterey-San Luis Obispo County line may not have a test diameter between 1.5 and 3.5 inches, except that not more than 30 may be landed incidentally within this size range (Urchins less than 1.5 inches in diameter are not targeted, but are often landed incidentally as they typically use the spine canopies of larger urchins as shelter).

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Rock crab**

**Species targeted:**

Brown rock crab (*Cancer antennarius*)  
 Red rock crab (*C. productus*)

**Primary depth range:** < 9 meters (<5 fathoms)

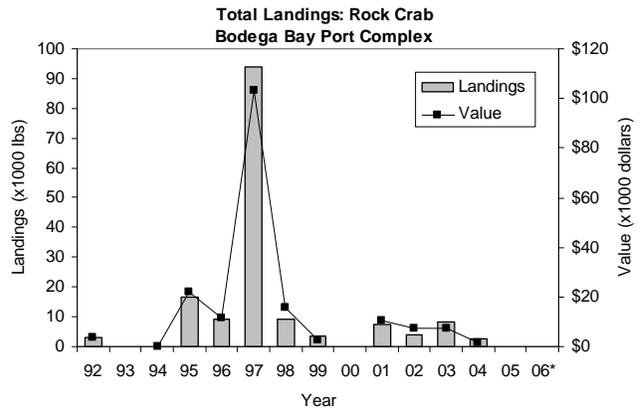
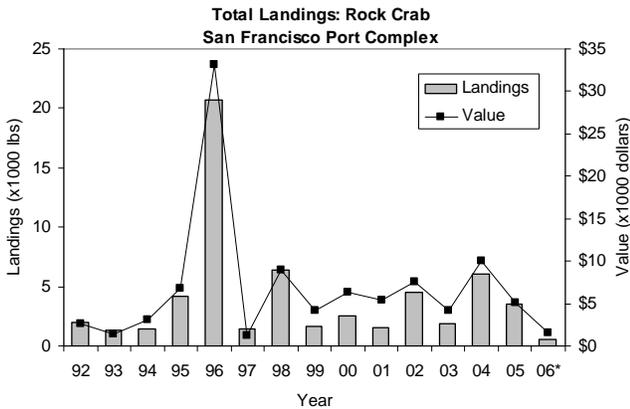
**Primary habitat type(s):** Pelagic, inshore waters

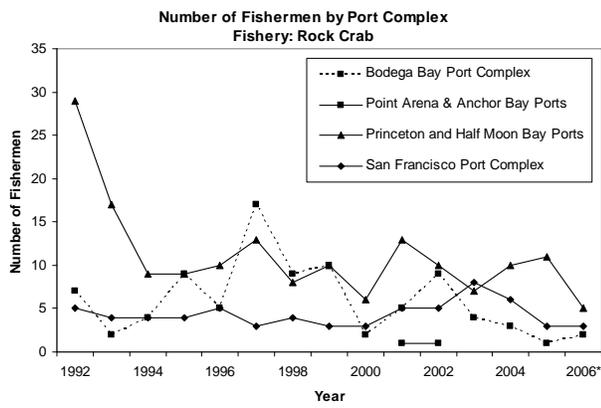
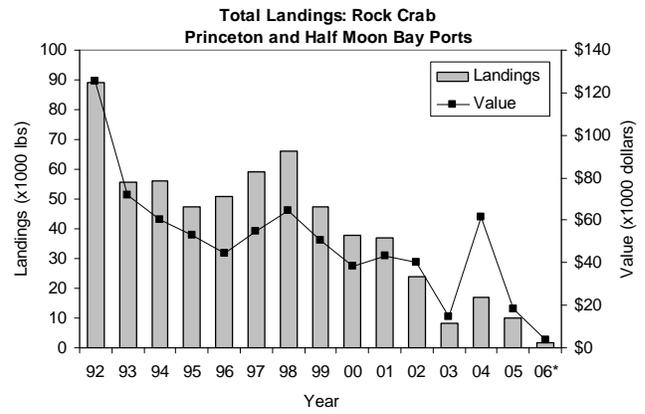
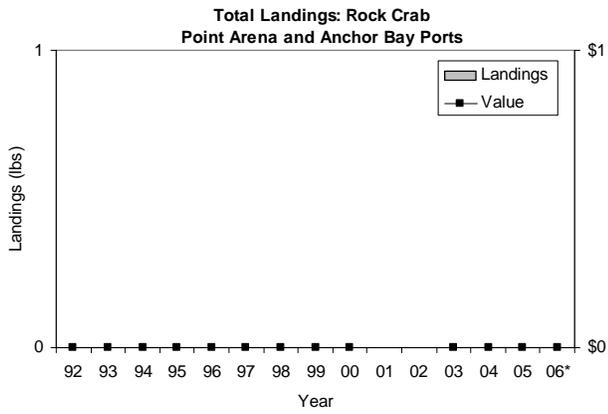
**Primary area of fishery:** State waters (x) (spawning) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:**

A permit system was initiated in the 2005-2006 season. Beginning with the 2006-2007 season, permits will only be issued to those holding a rock crab permit in the pervious season. Only rock crab with a carapace width of at least 4.5 inches may be retained.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Roe Herring**

**Species targeted:** Herring (*Clupea harengus pallasii*)

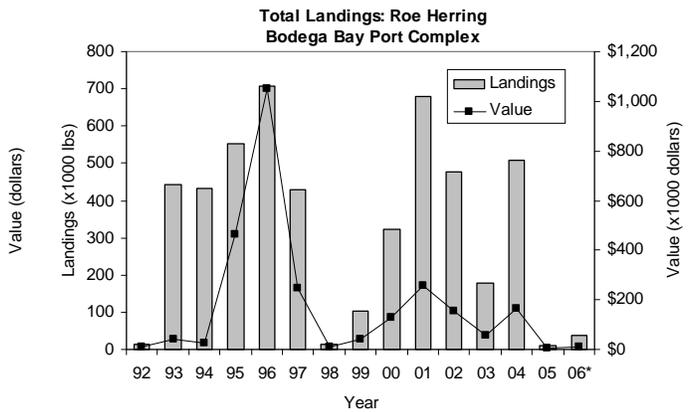
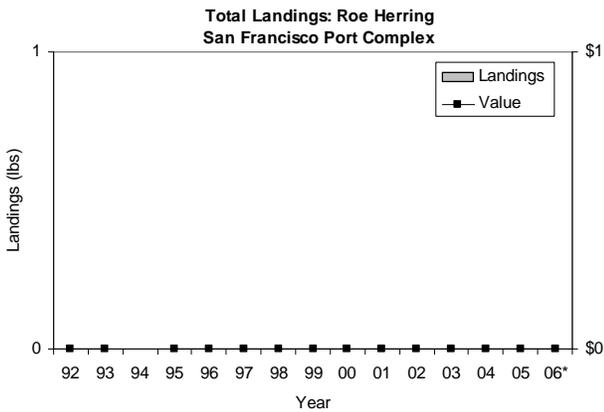
**Primary depth range:** low intertidal to 91 meters (50 fathoms)

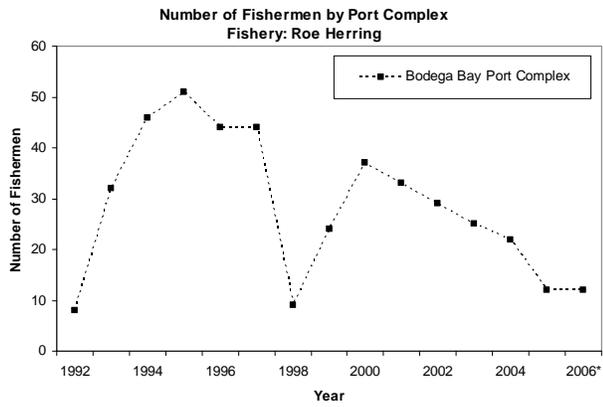
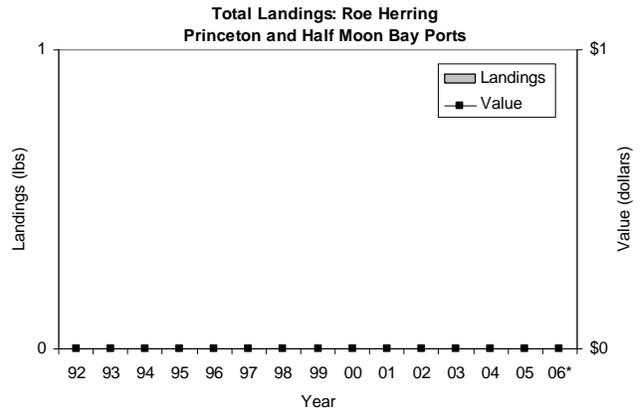
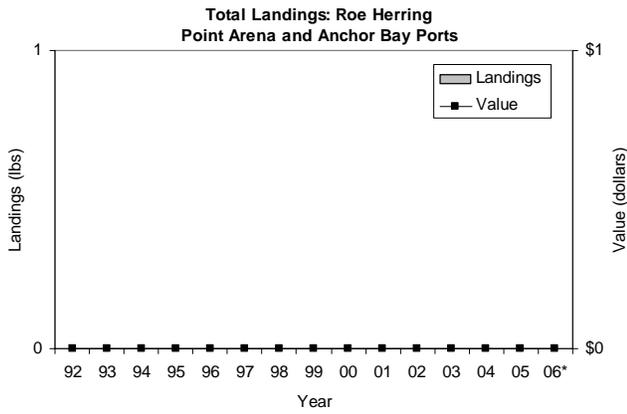
**Primary habitat type(s):** Kelp beds, algae mats, rocky reefs, mixed substrate and sand

**Primary area of fishery:** State waters (x) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:** Roe herring fisheries are managed as separate stocks in four areas of California. These fisheries are located in San Francisco, Tomales and Humboldt Bay as well as in Crescent City Harbor. In Tomales Bay, there are currently 35 limited entry permits with a seasonal quota of 350 tons. The fishery was open from December 26 to February 28 for the 2006-2007 season with a minimum gill net mesh size of 2 inches. Roe herring may be taken with gill nets only.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Salmon**

**Species targeted:** Chinook salmon (King) (*Oncorhynchus tshawytscha*)

**Primary depth range:** Surface to 91 meters (50 fathoms)

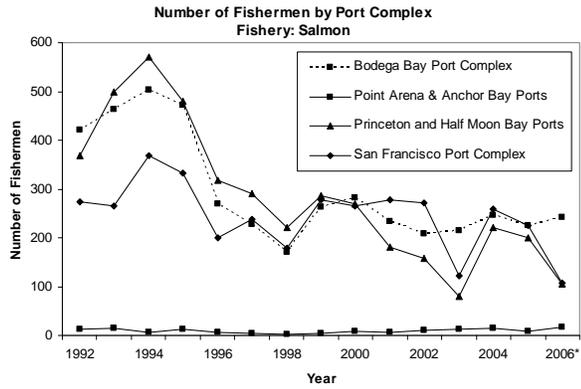
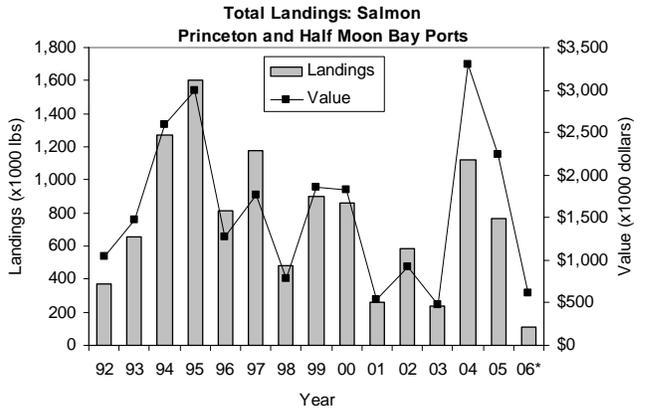
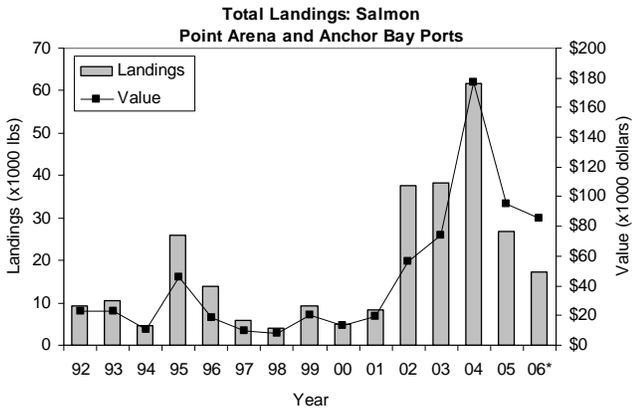
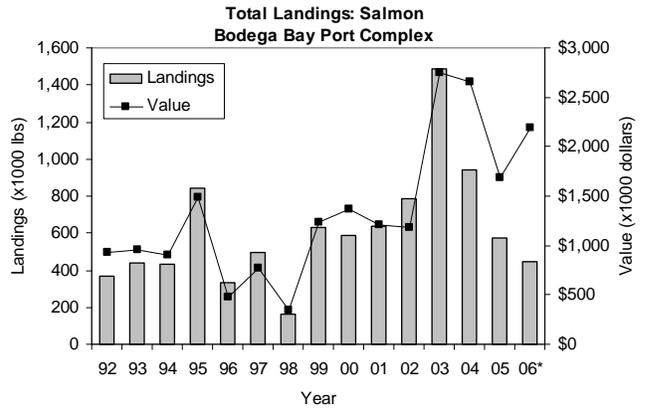
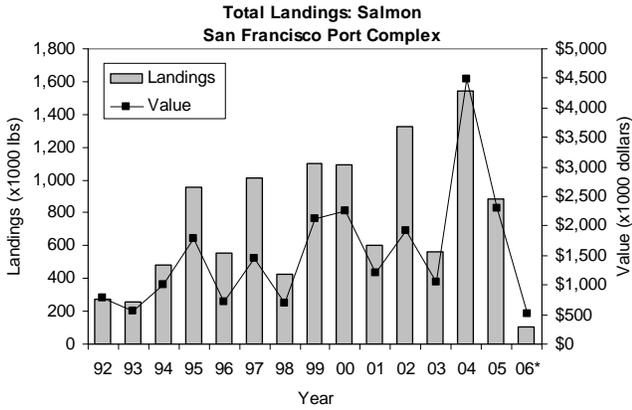
**Primary habitat type(s):** Pelagic, open ocean

**Primary area of fishery:** State waters (x) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**

The MLPA North Central Coast Study Region lies entirely within one of the Pacific Fishery Management Council's (PFMC) salmon management areas (Point Arena to Pigeon Point). The fishing seasons vary each year, and are set by the National Marine Fisheries Service under recommendation of the PFMC. Considerations in shaping the Chinook fisheries in this area include the protection of Endangered Species Act federally-listed Sacramento River winter Chinook (endangered), Central Valley spring Chinook (threatened) and California coastal Chinook (threatened). In addition, the fisheries are structured to ensure that the conservation objectives in the PFMC's Salmon Fishery Management Plan for fall Chinook in the Klamath and Sacramento River basins are met. California commercial seasons are based on the preseason forecasts of ocean abundances by age of Klamath fall Chinook and estimates of the total California Central Valley fall Chinook adult abundance. In 2006, the season was open from July 26 through September 30 in the area from Point Arena to Pigeon Point. From Point Reyes to Point San Pedro the season was additionally open from October 2 - 6 and 9-13. The number of fish allowed per vessel and/or quota amounts varied depending on location and time of year. The minimum legal length ranged from 26 to 28 inches and varied by location and time of year. Single point, barbless hooks were required. In addition, barbless circle hooks were required when fishing with bait and fishing by any means other than trolling. No more than six fishing lines are allowed per vessel. There are no areas closed to commercial salmon fishing within the study region other than existing state marine reserves. The retention of coho salmon or steelhead trout is prohibited in all ocean fisheries.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:



**Fishery: Sanddabs**

**Species targeted:**

Pacific sanddab (*Citharichthys sordidus*)

Longfin sanddab (*Citharichthys xanthostigma*)

**Primary depth range:** 18 to 274 meters (10 to 150 fathoms)

**Primary habitat type(s):** Soft bottom habitats

**Primary area of fishery:** State waters (x) Federal waters (x)

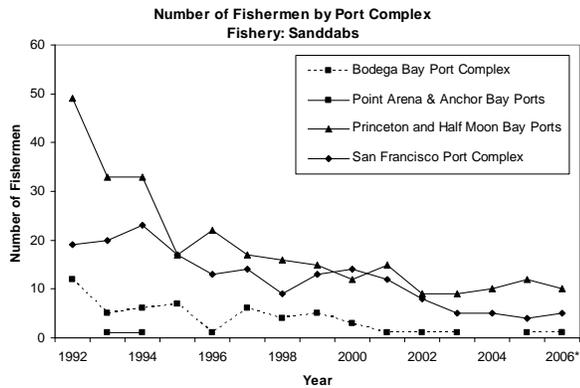
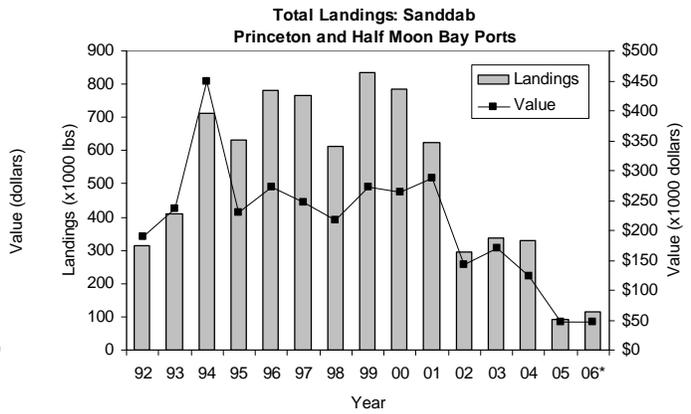
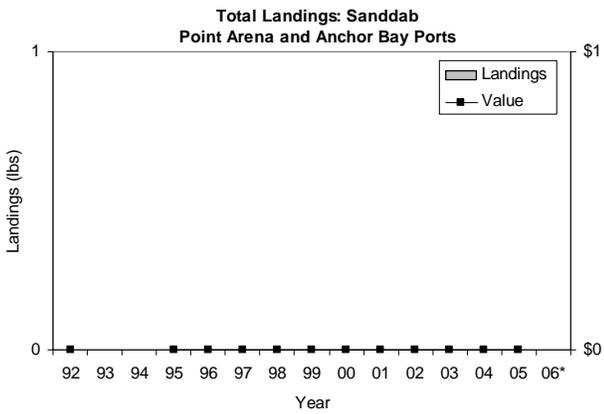
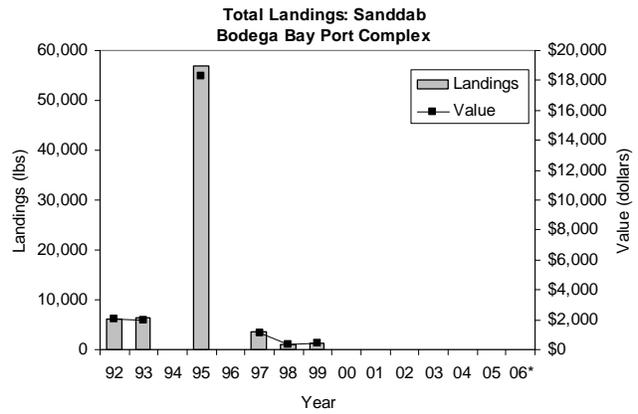
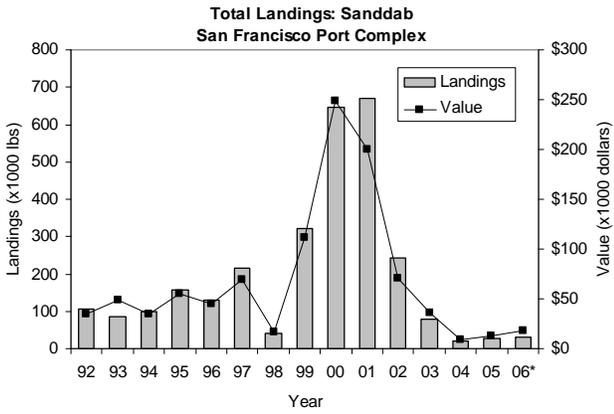
**Synopsis of commercial regulations applicable to the north central coast study region:**

Trawling for fish is prohibited within the Rockfish Conservation Area (RCA). A federal permit is required to fish outside the RCA. There are three types of federal permits: trawl limited entry, fixed gear limited entry, non-trawl open access. Within the MLPA North Central Coast Study Region (Alder Creek/Point Arena to Pigeon Point), the RCA for commercial fishing is from 30 to 150 fathoms for fixed gears limited entry and non-trawl open access, and is from 100 to 150 fathoms for limited entry trawlers.

For the 2007 season:

- The limited entry trawl fishery is open all year with two-month trip limits in effect. The RCA for this fishery in the study region is from 100 to 150 fathoms.
- The limited entry fixed gear fishery operates on cumulative trip limits on a one month basis, and is open all year. The trip limits for the 2007 season are set at 5,000 lbs per month. The RCA for this fishery in the study region is from 30 to 150 fathoms. With appropriate gear, fishing may take place within the RCA.
- The open access gear fishery operates on cumulative trip limits on a one month basis, and is open all year. The trip limits for the 2007 season are set at 3,000 lbs per month, with no more than 300 lbs in species other than Pacific sanddabs (*Citharichthys sordidus*). The RCA for this fishery in the study region is from 30 to 150 fathoms. With appropriate gear, fishing may take place within the RCA.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:



## **Fishery: Sharks, Skates and Rays**

This represents multiple fisheries which either target shark or harvest them incidentally.

### **Species:**

Brown smoothhound (*Mustelus henlei*),  
Gray smoothhound (*Mustelus californicus*),  
Basking shark (*Cetorhinus maximus*),  
Blue shark (*Prionace glauca*),  
Horn shark (*Heterodontus francisci*),  
Leopard shark (*Triakis semifasciata*),  
Pacific angel shark (*Squatina californica*),  
Salmon shark (*Lamna ditropis*),  
Sevengill (*Notorynchus cepedianus*),  
Soupfin shark (*Galeorhinus zyopterus*),  
Sixgill (*Hexanchus griseus*),  
Shortfin mako shark (bonito shark) (*Isurus oxyrinchus*),  
Swell shark (*Cephaloscyllium ventriosum*),  
Thresher shark (*Alopias vulpinus*),  
White shark (*Carcharodon carcharias*),  
Spiny dogfish (*Squalus acanthias*),  
Pacific electric ray (*Torpedo californica*),  
Round stingray (*Urolophus halleri*),  
Bat ray (*Myliobatis californica*),  
Big skate (*Raja binoculata*),  
California skate (*Raja inornata*),  
Shovelnose guitarfish (*Rhinobatos productus*),  
Spotted ratfish (*Hydrolagus collieri*)

**Primary depth range:** 0 to 732 feet (0 to 400 fathoms)

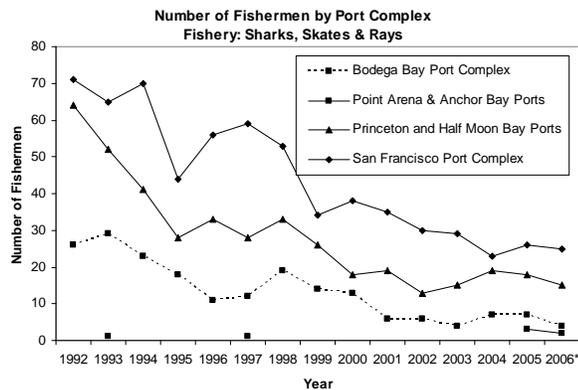
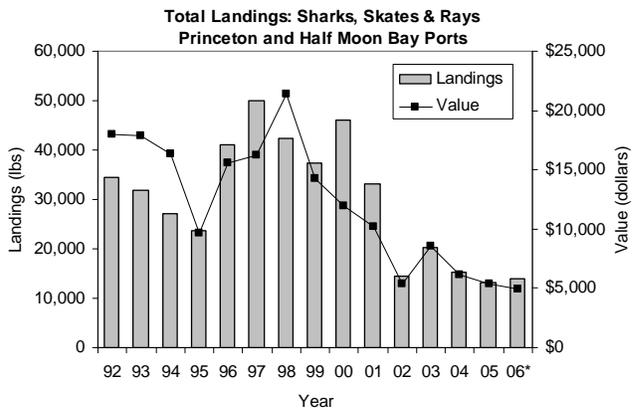
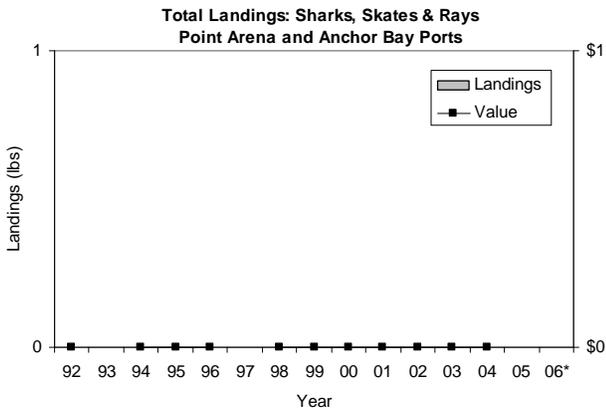
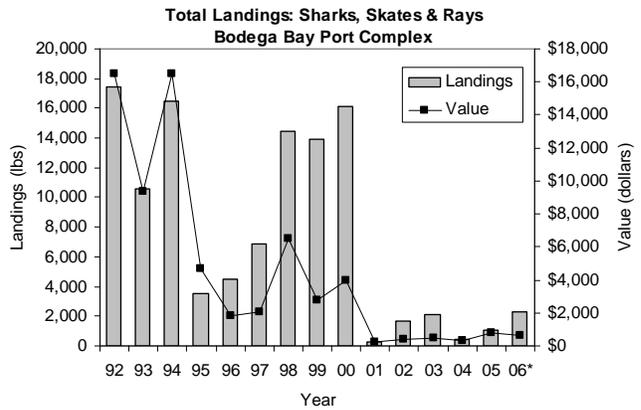
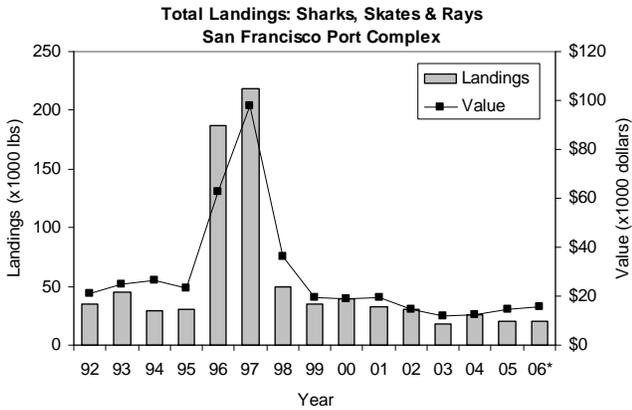
**Primary habitat type(s):** Open ocean, pelagic, nearshore, soft and hard bottoms, rocky reefs and kelp forests

**Primary area of fishery:** State waters (x) Federal waters (x)

### **Synopsis of commercial regulations applicable to the north central coast study region:**

A highly migratory species (HMS) permit is required to take thresher and mako sharks. No quotas are currently in place for harvesting sharks covered in the HMS Fishery Management Plan. However, harvest guidelines for common thresher sharks are set at 340 metric tons and at 150 metric tons for shortfin mako sharks. White sharks may not be taken for commercial purposes. Leopard sharks have a minimum legal size of 36 inches. Pacific angel sharks have a minimum legal size of 42 inches for females and 40 inches for males. Sharks may be taken with drift gill nets with a mesh size of 8 inches. Spears, harpoons, and bow and arrows may not be used to take soupfin shark.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:



## **Fishery: Shelf Rockfish**

### **Species targeted:**

shelf rockfishes:

Bocaccio (*Sebastes paucispinis*),  
Canary (*S. pinniger*),  
Chilipepper (*S. goodei*),  
Shortbelly (*S. jordanii*),  
Widow (*S. entomelas*),  
Yelloweye (*S. ruberrimus*)

Other shelf rockfish species landed:

Bronzespotted (*S. gilli*)  
Cowcod (*S. levis*),  
Chameleon (*S. phillipsi*)  
Flag (*S. rubrivinctus*),  
Greenblotched (*S. rosenblatti*),  
Greenspotted (*S. chlorostictus*),  
Greenstriped (*S. elongatus*),  
Halfbanded (*S. semicinctus*),  
Honeycomb (*S. umbrosus*)  
Pink (*S. eos*),  
Pinkrose (*S. simulator*),  
Redstripe (*S. proriger*),  
Rosethorn (*S. helvomaculatus*),  
Rosy (*S. rosaceus*),  
Shortbelly (*S. jordanii*)  
Speckled (*S. ovalis*),  
Squarespot (*S. hopkinsi*),  
Starry (*S. constellatus*),  
Stripetail (*S. saxicola*),  
Swordspine (*S. ensifer*),  
Tiger (*S. nigrocinctus*),  
Vermilion (*S. miniatus*),  
Yellowtail (*S. flavidus*)

**Primary depth range:** 55 to 366 meters (30 to 200 fathoms)

**Primary habitat type(s):** Deep rocky reefs, cobble, sand and edges of canyons

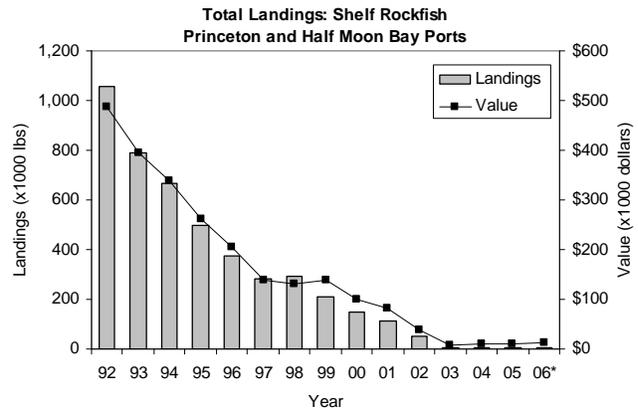
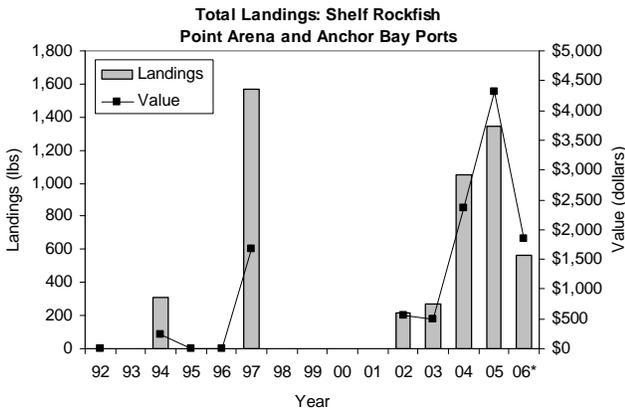
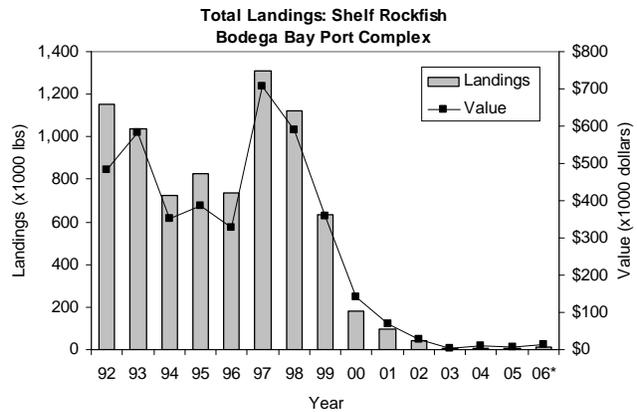
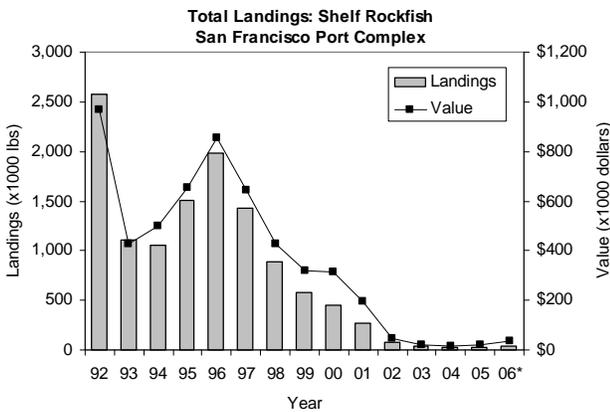
**Primary area of fishery:** State waters (x) Federal waters (x)

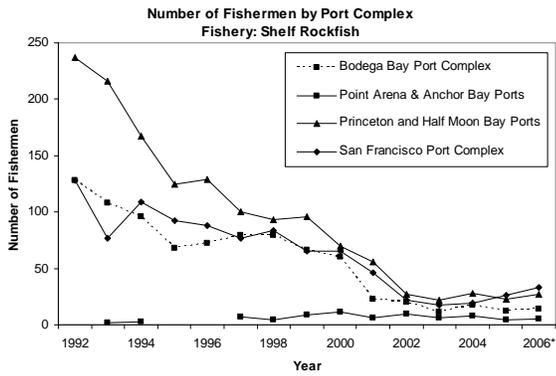
### **Synopsis of commercial regulations applicable to the north central coast study region:**

Within the Rockfish Conservation Area (RCA), the taking of rockfishes is prohibited. A federal permit is required to fish outside the RCA. There are three types of federal permits: trawl

limited entry, fixed gear limited entry, non-trawl open access. Within the MLPA North Central Coast Study Region (Alder Creek/Point Arena to Pigeon Point), the RCA for commercial fishing is from 30 to 150 fathoms for fixed gears limited entry and non-trawl open access and from 100 to 150 fathoms for limited entry trawlers. Rockfishes landed must be sorted by species or species group prior to weighing. Cumulative trip limits per permit are in effect, generally on a two-month basis. The season may be closed early if harvest guidelines are met or exceeded. A total closure of cowcod is in effect for 2007 for all gears. Species such as bocaccio, canary, widow, yelloweye and cowcod have been declared overfished. See section 3.2.2 for a complete further information about overfished species.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





## **Fishery: Slope Rockfish/Grenadier**

### **Species targeted:**

slope rockfishes: Splitnose (*Sebastes diploproa*), Darkblotched (*S. crameri*)

Grenadiers (Pacific rattail- *Coryphaenoides acrolepis*)

Other rockfish species landed:

Aurora (*S. aurora*),

Bank (*S. rufus*),

Blackgill (*S. melanostomus*),

Pacific ocean perch (*S. alutus*),

Redbanded (*S. babcocki*)

**Primary depth range:** 366 to 1,280 meters (200 to 700 fathoms)

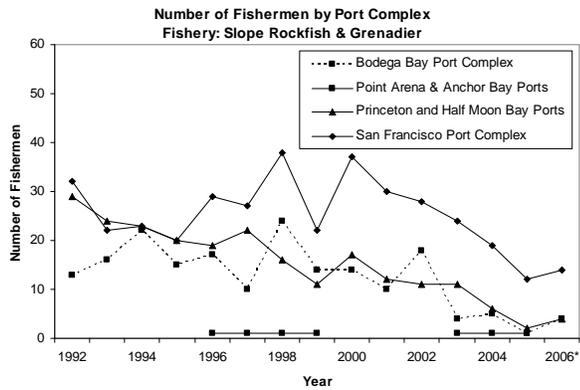
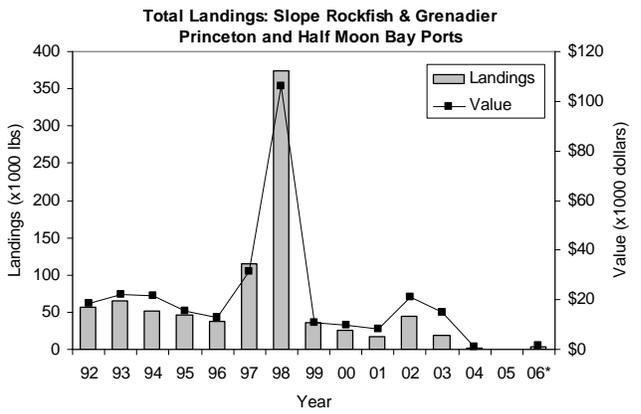
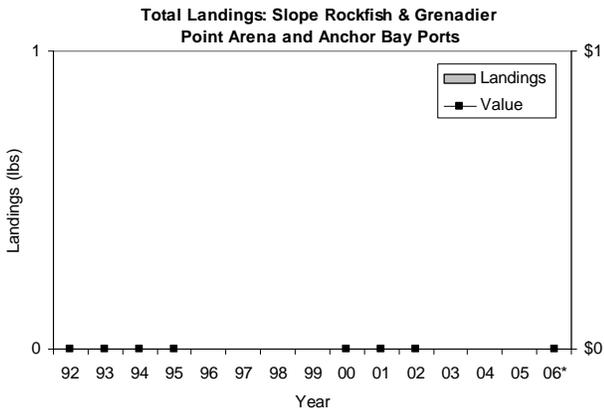
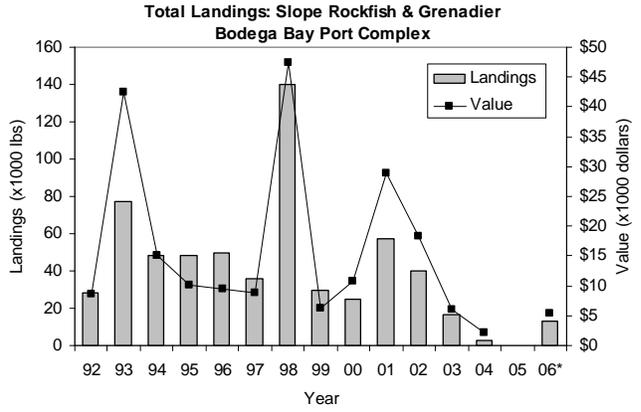
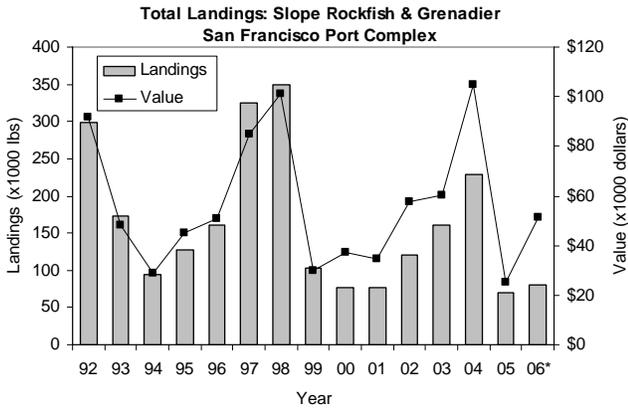
**Primary habitat type(s):** Soft bottom on continental slope, submarine canyons

**Primary area of fishery:** State waters ( ) Federal waters (x)

### **Synopsis of commercial regulations applicable to the north central coast study region:**

Within the Rockfish Conservation Area (RCA), the taking of rockfishes is prohibited. A federal permit is required to fish outside the RCA. There are three types of federal permits: trawl limited entry, fixed gear limited entry, non-trawl open access. Within the MLPA North Central Coast Study Region (Alder Creek/Point Arena to Pigeon Point), the RCA for commercial fishing is 30 to 150 fathoms for fixed gears limited entry and non-trawl open access, and from 100 to 150 fathoms for limited entry trawlers. Rockfishes landed must be sorted by species or species group prior to weighing. Cumulative trip limits per permit are in effect, generally on a two-month basis. The season may be closed early if harvest guidelines are met or exceeded. Species such as darkblotched and Pacific Ocean perch have been declared overfished. See section 3.2.2 for a complete further information about overfished species.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:



**Fishery: Smelt**

**Species targeted:**

Jacksmelt (*Atherinopsis californiensis*)

Other species harvested: Night smelt, Surf smelt, True smelt, Topsmelt, Whitebait smelt

**Primary depth range:** 0 to 55 meters (0 to 30 fathoms)

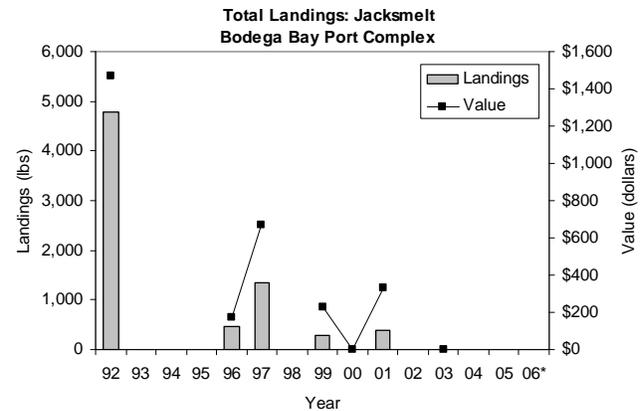
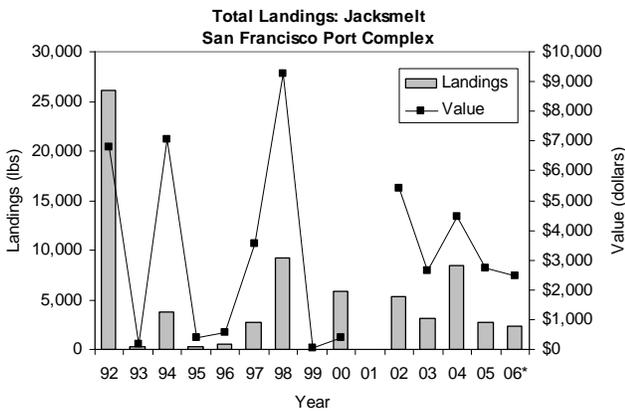
**Primary habitat type(s):** Nearshore pelagic waters

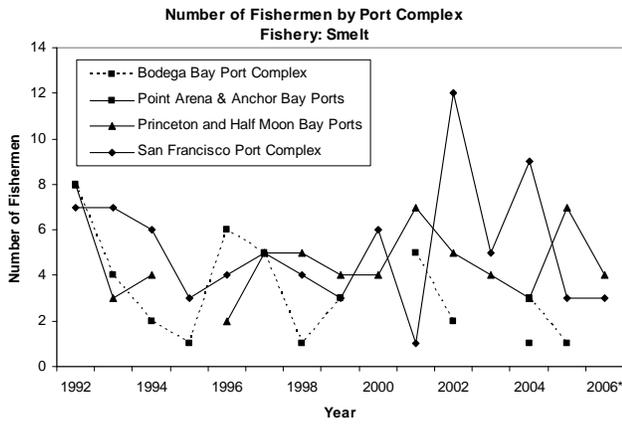
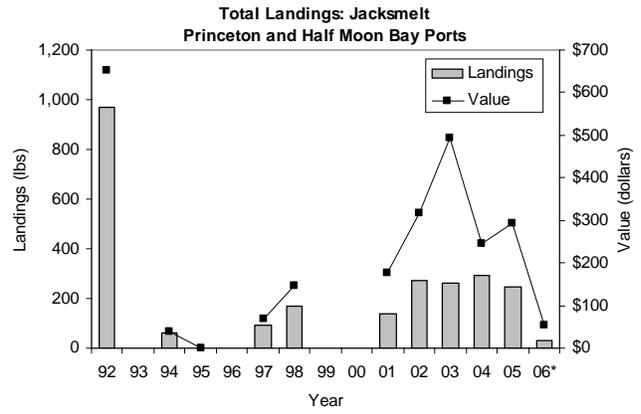
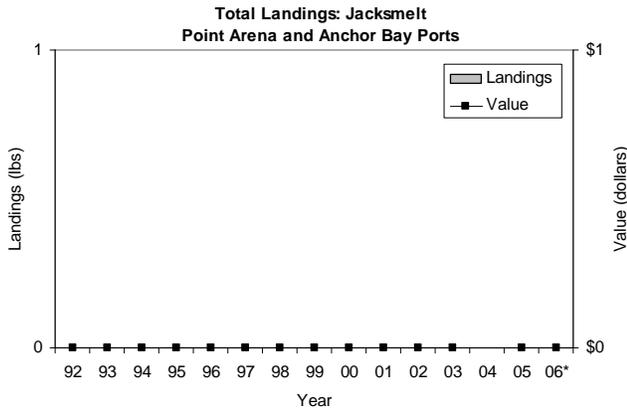
**Primary area of fishery:** State waters (x) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:**

There is no commercial limit on the take of Jacksmelt.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Spot Prawn - Trap**

**Species targeted:** Spot prawn (*Pandalus platyceros*)

**Primary depth range:** 182 to 274 meters (100 to 150 fathoms)

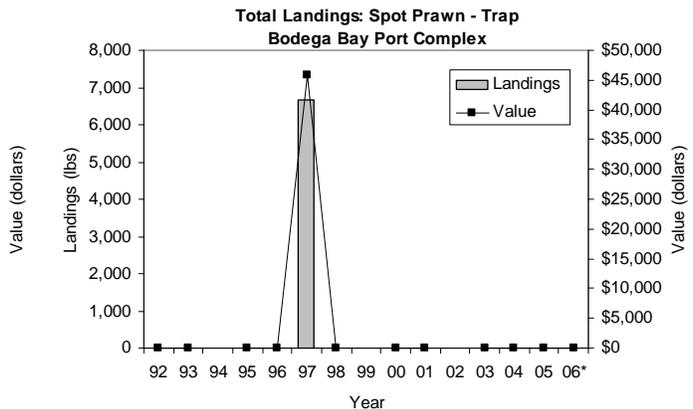
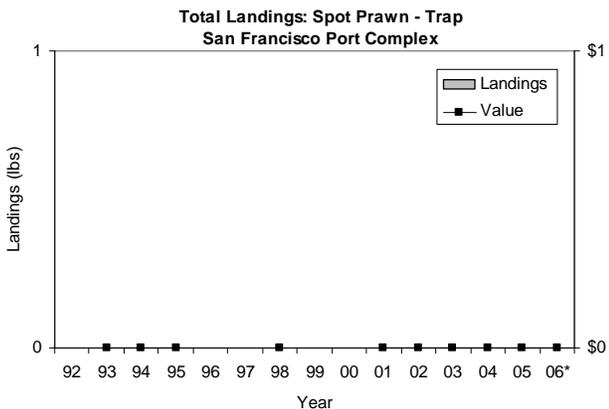
**Primary habitat type(s):** Canyons; hard, soft and mixed bottoms

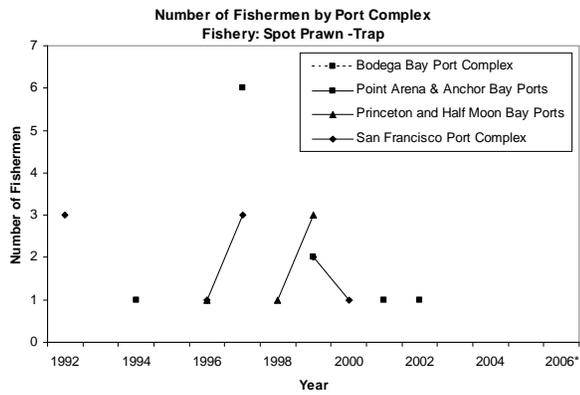
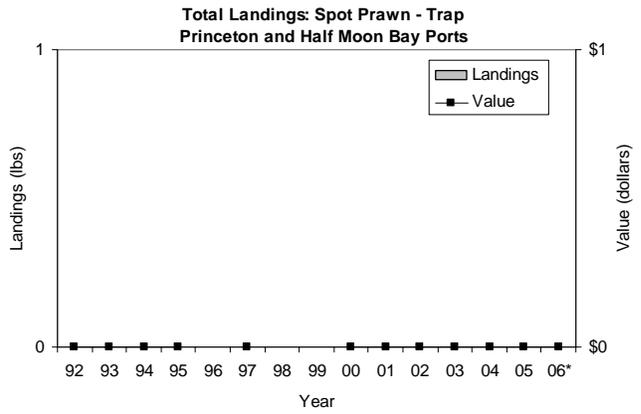
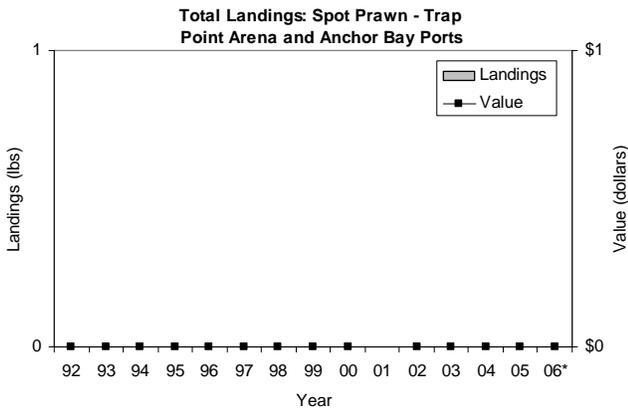
**Primary area of fishery:** State waters (x) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**

This is a restricted access fishery with a 3-tier structure with no restrictions on geographical region of fishing. Tier 1 permits are fully transferable. A permittee may use no more than 500 traps (only 300 in state waters north of Point Arguello), and has no restrictions on landings. Tier 2 permits are not transferable. A permittee may use no more than 150 traps, and may land no more than 5,000 lbs of spot prawns in a calendar year. Tier 3 (trawl-to-trap conversion) permits are not transferable. A permittee may use no more than 500 traps (only 300 in state waters north of Point Arguello), and has no restrictions on landings. North of Point Arguello the season for spot prawn is open from 1 August through 30 April. South of Point Arguello the season is open from 1 February through 31 October. All species caught incidentally in spot prawn traps must be returned to the water immediately.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Surfperch**

**Species targeted:** Barred surfperch (*Amphistichus argenteus*); Redtail surfperch (*Amphistichus rhodoterus*)

Other species infrequently landed:

Striped surfperch (*Embiotoca lateralis*)

Rubberlip surfperch (*Rhacochilus toxotes*)

Black perch (*Embiotoca jacksoni*),

Calico surfperch (*Amphistichus koelz*),

Pile perch (*Rhacochilus vacca*),

Rainbow seaperch (*Hypsurus caryi*),

Walleye surfperch (*Hyperprosopon argenteum*)

Shiner perch (*Cymatogaster aggregata*)

**Primary depth range:** Near surface to 30 meters (17 fathoms)

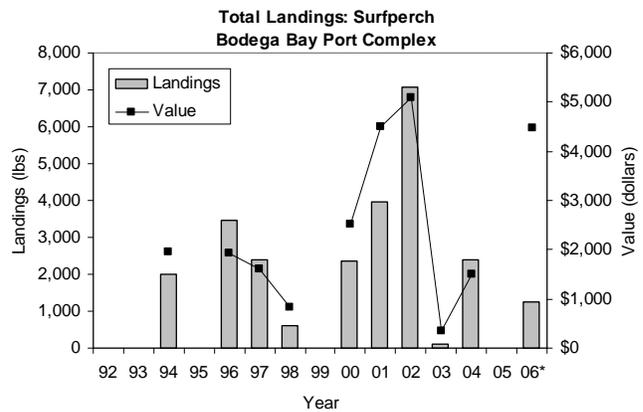
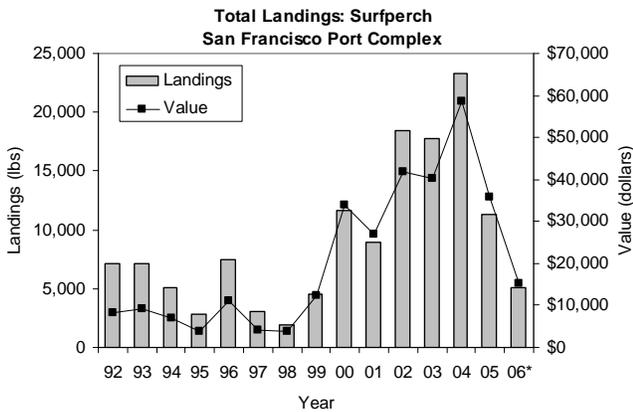
**Primary habitat type(s):** Nearshore rocky habitats

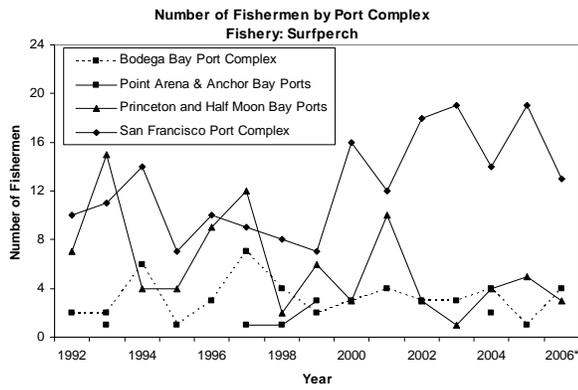
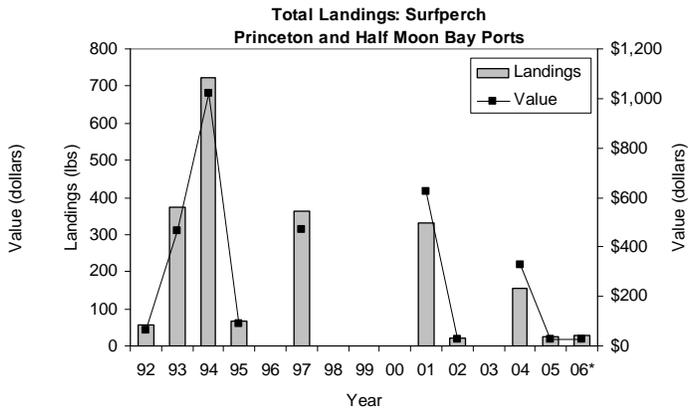
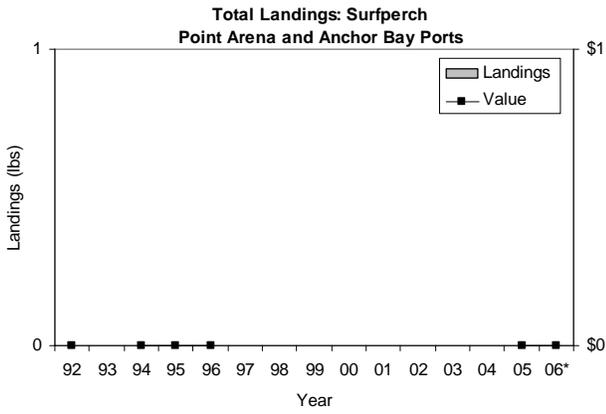
**Primary area of fishery:** State waters (x) Federal waters ( )

**Synopsis of commercial regulations applicable to the north central coast study region:**

The season is open from August 1 through April 30 for all species of surfperch except shiner surfperch, which may be taken year-round.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Swordfish**

**Species targeted:** Swordfish (*Xiphias gladius*)

**Primary depth range:** surface and near surface waters

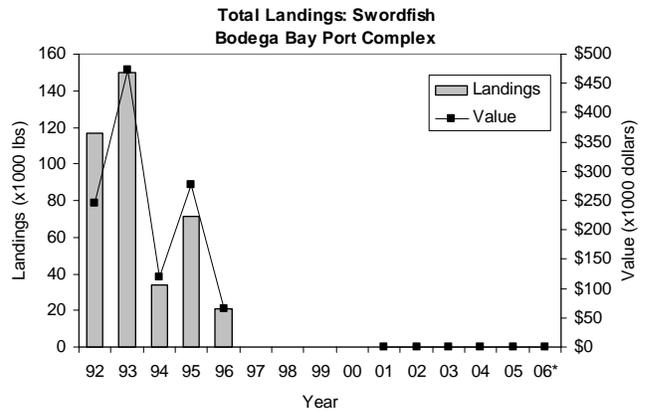
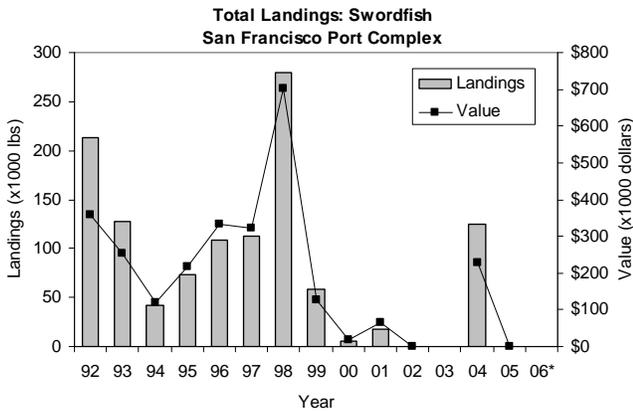
**Primary habitat type(s):** Open ocean, pelagic waters

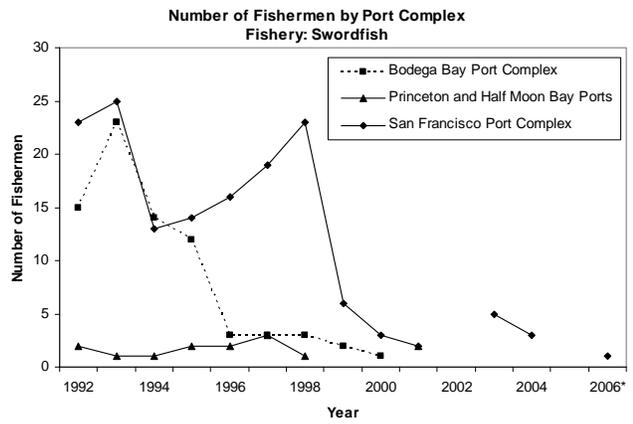
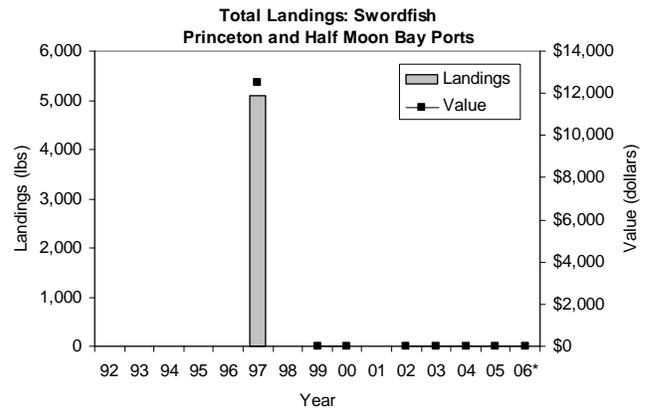
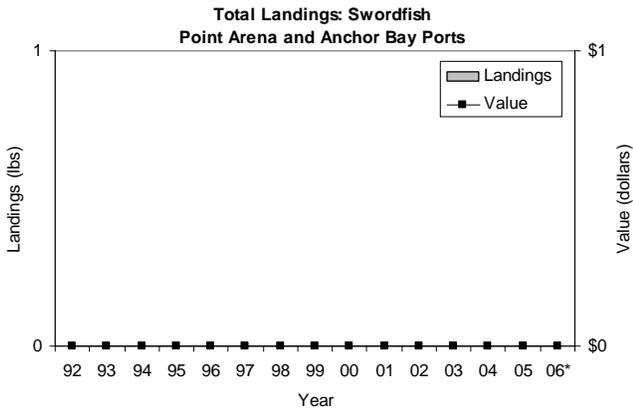
**Primary area of fishery:** State waters ( ) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**

This fishery is managed federally under the Highly Migratory Species (HMS) Fisheries Management Plan. An HMS permit is required. Access is restricted for the gill net fishery. Drift gill nets can not be longer than 6,000 feet long or have mesh smaller than 14 inches.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





**Fishery: Tuna (Albacore/other tuna)**

**Species targeted:** Albacore (*Thunnus alalunga*)

Other species harvested:

Bigeye tuna (*Thunnus obesus*),

Bluefin tuna (*T. thynnus*),

Yellowfin tuna (*T. albacares*),

Skipjack (*Euthynnus pelamis*)

**Primary depth range:** Surface and subsurface waters

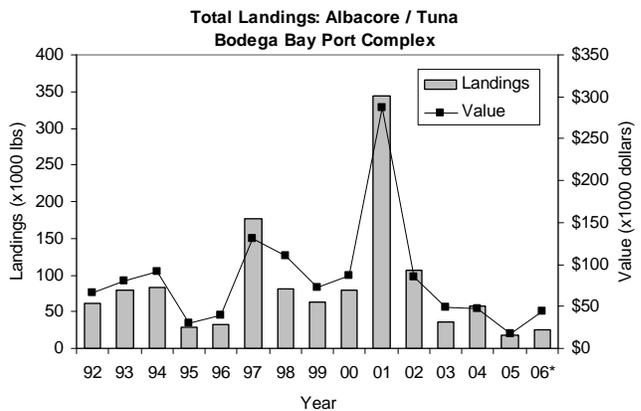
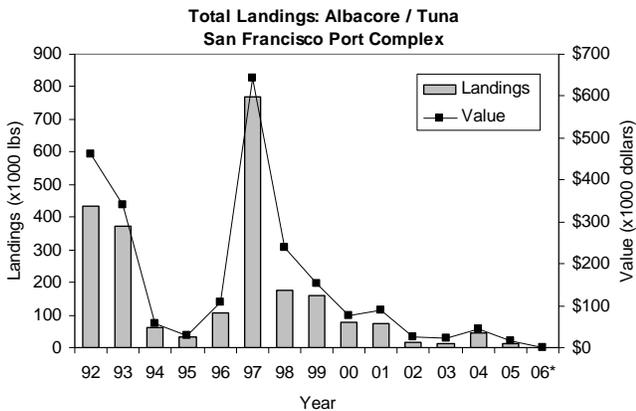
**Primary habitat type(s):** Open ocean, pelagic waters

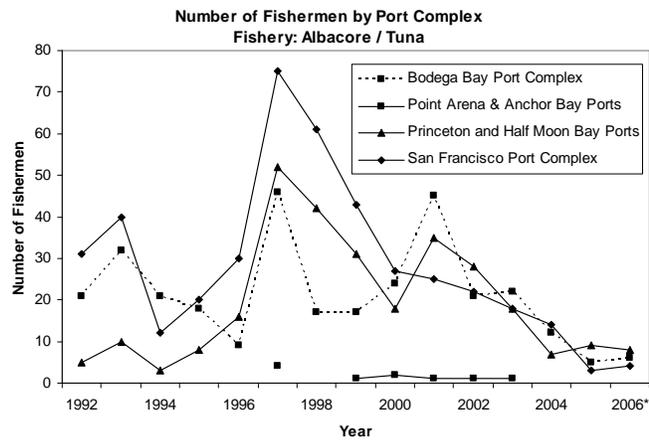
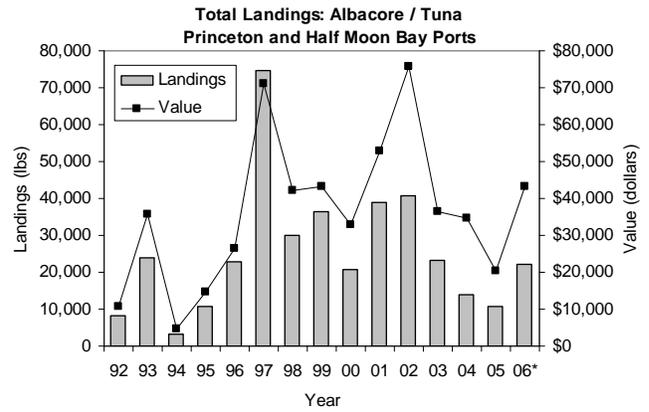
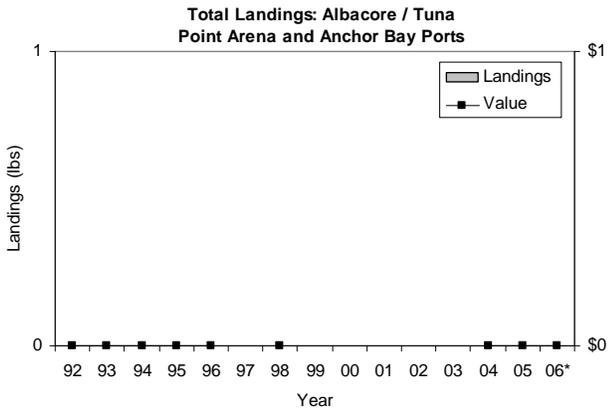
**Primary area of fishery:** State waters ( ) Federal waters (x)

**Synopsis of commercial regulations applicable to the north central coast study region:**

These fish are managed under the Highly Migratory Species (HMS) Fisheries Management Plan developed by the PFMC. Fishermen must possess a federal HMS permit.

**Landings and values by port complex:** Data were compiled from the Commercial Fishery Information System database (extraction date: 14 March 2007). Missing values are due to confidentiality considerations. Values are not adjusted to account for inflation. The number of fishermen is the number of fishermen who have made at least one landing for that fishery, port area and year. \*2006 data are preliminary:





## **Appendix III(I): Market categories included in market category groupings**

### **California Halibut**

Market categories: California Halibut, Halibut

### **Coastal Pelagics**

Market categories: Bullet Mackerel, Deep Body Anchovy, Jack Mackerel, Juvenile Sardine, Northern Anchovy, Pacific Mackerel, Pacific Sardine, Round Herring, Slough Anchovy, Unspecified Mackerel

### **Croaker**

Market categories: Black Croaker, Spotfin Croaker, Unspecified Croaker, White Croaker, Yellowfin Croaker

### **Dover sole, Thornyheads & Sablefish (non-trawl & trawl)**

Market categories: Dover Sole, Longspine Thornyhead, Sablefish, Shortspine Thornyhead, Thornyheads

### **Dungeness Crab**

Market category: Dungeness Crab

### **Herring**

Market categories: Pacific Herring, Pacific-Roe Herring, Pacific-Roe on Kelp Herring

### **Lingcod**

Market category: Lingcod

### **Market Squid**

Market category: Market Squid

### **Nearshore Finfish**

Market categories: Black-and-Yellow Rockfish, Black/Blue Group Rockfish, Black Rockfish, Blue Rockfish, Brown Rockfish, Cabezon, Calico Rockfish, California Scorpionfish California Sheephead, China Rockfish, Copper Rockfish, Grass Rockfish, Gopher Rockfish, Group Bolina Rockfish, Group Deep Nearshore Rockfish, Group Gopher Rockfish, Group Nearshore Rockfish, Kelp Rockfish, Kelp Greenling, Monkeyface Eel, Olive Rockfish, Quillback Rockfish, Rock Greenling, Treefish Rockfish

### **Ocean Shrimp**

Market category: Ocean Shrimp

### **Other Flatfish**

Market categories: Arrowtooth Flounder, Starry Flounder, Unspecified Flounder, Butter Sole, English Sole, Petrale Sole, Rex Sole, Rock Sole, Sand Sole, Slender Sole, Unspecified Sole, Bigmouth Sole, Faintail Sole, C-O Sole, Hornyhead Turbot, Spotted Turbot, Turbot, Curlfin Turbot, Diamond Turbot

### **Red Abalone**

Market category: Red Abalone

### **Red Urchin**

Market category: Red Urchin

### **Rock Crab**

Market categories: Brown Rock Crab, Red Rock Crab, Rock Unspecified Crab, Yellow Rock Crab

### **Salmon**

Market categories: Chinook Salmon, Chum Salmon, Coho Salmon, Pink Salmon, Roe (Chinook, Coho) Salmon, Salmon

### **Sanddabs**

Market categories: Longfin Sanddab, Pacific Sanddab, Sanddab, Speckled Sanddab

### **Sharks, Skates & Rays**

Market categories: Bat Ray, Pacific Electric Ray, Stingray, Unspecified Ray, Basking Shark, Bigeye Thresher Shark, Blacktip Shark, Blue Shark, Brown Smoothhound Shark, Cow Shark, Dusky Shark, Gray Smoothhound Shark, Horn Shark, Leopard Shark, Pacific Angel Shark, Pelagic Thresher Shark, Salmon Shark, Sevengill Shark, Shortfin Mako Shark, Sixgill Shark, Smooth Hammerhead Shark, Soupfin Shark, Spiny Dogfish Shark, Swell Shark, Thresher Shark, White Shark, Unspecified Shark, Big Skate, California Skate, Round Stingray, Shovelnose Guitarfish, Spotted Ratfish, Thornback Skate, Unspecified Skate

### **Shelf Rockfish**

Market categories: Bronzespotted Rockfish, Bocaccio Rockfish, Bocaccio/Chili Group Rockfish, Canary/Vermillion Group Rockfish, Canary Rockfish, Chilipepper Rockfish, Chameleon Rockfish,

Cowcod Rockfish, Flag Rockfish, Greenblotched Rockfish Greenspotted Rockfish, Greenstriped Rockfish, Group Red Rockfish, Group Shelf Rockfish, Halfbanded Rockfish, Honeycomb Rockfish, Mexican Rockfish, Pink Rockfish, Pinkrose Rockfish, Redstripe Rockfish, Rosethorn Rockfish, Rosy Rockfish, Shortbelly Rockfish, Speckled Rockfish, Squarespot Rockfish, Starry Rockfish, Stripetail Rockfish, Swordspine Rockfish, Tiger Rockfish, Widow Rockfish Yelloweye Rockfish, Yellowtail Rockfish, Vermilion Rockfish

### **Slope Rockfish and Grenadiers**

Market categories: Aurora Rockfish, Bank Rockfish, Blackgill Rockfish, Darkblotched Rockfish, Grenadier, Pacific Ocean Perch Rockfish, Redbanded Rockfish, Shortraker Rockfish, Splitnose Rockfish

### **Smelt**

Market categories: Jacksmelt, Night Smelt, Surf Smelt, True Smelt, Topsmelt, Whitebait Smelt

### **Spot Prawn**

Market category: Spot Prawn

### **Surfperch**

Market categories: Barred Surfperch, Black Surfperch, Calico Surfperch, Pile Surfperch, Rainbow Surfperch, Redtail Surfperch, Rubberlip Surfperch, Shiner Surfperch, Walleye Surfperch

### **Swordfish**

Market categories: Swordfish

### **Tuna**

Market categories: Albacore Tuna, Bigeye Tuna, Bluefin Tuna, Skipjack Tuna, Yellowfin Tuna, Unspecified Tuna, Longtail Tuna, Blackfin Tuna